

REPORT DOCUMENTATION  
PAGE

1. REPORT NO.

DOD/DF-81/012b

2.

3. Recipient's Accession No.

4. Title and Subtitle

H6000 Tape Library and Workload Management System,  
Volume II, User's Manual.

5. Author(s)

November 1980

6. Author(s)

8. Performing Organization Rept. No.

9. Performing Organization Name and Address

AFSDSC

Gunter AFS AL 36114

10. Project/Task/Work Unit No.

11. Contract(C) or Grant(G) No.

(C)

12. Sponsoring Organization Name and Address

AFSDSC

Gunter AFS AL 36114

13. Type of Report & Period Covered

14.

15. Supplementary Notes

for magnetic tape see

AD-A105695

16. Abstract (Limit: 200 words)

The purpose of the H6000 Tape Library and Workload Management System is to provide support to a data processing installation's tape library and workload management functions. The tape library portion of the system provides the host site librarian the tools to manage large magnetic tape libraries through automatic on-line and/or batch update to the library's data base. Library data base reports and retrievals are also possible. The workload management portion of the system monitors the scheduling of recurring batch processing.

(18) DOD/DF  
US AF

17. Document Analysis a. Descriptors

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement

The source agency has restricted sales of this item to Federal, state and local governments.

19. Security Class (This Report)

Unclassified

20. Security Class (This Page)

Unclassified

21. No. of Pages

181

22. Price

(See ANSI-Z39.18)

See Instructions on Reverse

OPTIONAL FORM 272 (4-77)  
(Formerly NTIS 35)  
Department of Commerce

81 9-1-17 49  
410181

AL 4

FILE COPY

DEPARTMENT OF THE AIR FORCE  
Headquarters US Air Force  
Washington DC 20330

AF MANUAL 171-602  
Volume II  
14 November 1980

## Automatic Data Processing Systems and Procedures

### H6000 TAPE LIBRARY AND WORKLOAD MANAGEMENT SYSTEM: Q105/QD

#### USERS MANUAL

This manual provides the H6000 DPI management personnel with the information to use the modified QD System. Numerous system enhancements are now available due to the combining of the AFSC On-Line Tape Library System and the USAF batch QD System. The Tape Library Management Subsystem may now be processed in the On-Line or batch mode. The Workload Management Subsystem must be processed in the batch mode.

This manual has been written to be easily understood by its primary audience. However, there are certain words that are commonly used in performing the functions described here. These are listed in the paragraph titled "Terms and Abbreviations". We advise you to review them before reading this document.

#### TABLE OF CONTENTS

		PAGE
SECTION 1.	GENERAL	
1.1	Purpose Of The Users Manual.....	1-1
1.2	Project References.....	1-1
1.2.1	History.....	1-1
1.2.2	Development.....	1-1
1.2.3	Documents.....	1-1
1.3	Terms And Abbreviations.....	1-2
1.4	Security And Privacy.....	1-3
SECTION 2.	SYSTEM SUMMARY	
2.1	System Application.....	2-1
2.1.1	TLM Subsystem.....	2-1
2.1.1.1	Purpose.....	2-1
2.1.1.2	Capabilities and Improvements.....	2-1
2.1.1.3	Additional Features.....	2-1
2.1.1.4	Functions Performed.....	2-2

Supersedes AFM 171-602, Volume II, 1 October 1978.  
(for summary of changes.)

No of Printed Pages: 173

OPR: AFSDC/PRD (SMS Jack Knight)

Approved by: AFSDC/PR (E. P. Whitt, Jr.)

Editor: L. H. Glenn

Distribution: F

See signature page

		PAGE
2.1.2	WLM Subsystem.....	2-2
2.1.2.1	Purpose.....	2-2
2.1.2.2	Capabilities and Improvements.....	2-2
2.1.2.3	Additional Features.....	2-2
2.1.2.4	Functions Performed.....	2-2
2.2	System Operation.....	2-3
2.2.1	TLM Subsystem.....	2-3
2.2.1.1	TL-Master Conversion.....	2-3
2.2.1.2	Reinitialized Data Base.....	2-3
2.2.1.3	On-Line Executive.....	2-3
2.2.1.4	Automatic Capture and Update.....	2-3
2.2.1.5	TLM Reports.....	2-3
* 2.2.1.6	TLM Inquiry.....	2-3
* 2.2.1.7	Automatic Scratch.....	2-4
* 2.2.1.8	File ID/File Control Change.....	2-4
* 2.2.1.9	COB Actions.....	2-4
2.2.1.10	Backup Transactions.....	2-4
2.2.2	WLM Subsystem.....	2-4
2.2.2.1	Schedule/Forecast.....	2-4
2.2.2.2	IMCV Build.....	2-4
2.2.2.3	Tape Labels.....	2-4
2.2.2.4	WLM Reports.....	2-4
2.2.2.5	Edit/Update.....	2-4
2.3	System Configuration.....	2-4
2.4	System Organization.....	2-4
2.4.1	TLM Subsystem Organization.....	2-4
2.4.2	WLM Subsystem Organization.....	2-5
2.5	Performance.....	2-5
2.5.1	TLM Subsystem.....	2-5
2.5.1.1	Inputs.....	2-5
2.5.1.2	Outputs.....	2-5
2.5.1.3	Response Time.....	2-5
2.5.1.4	Limitations.....	2-6
2.5.1.5	Error Rate.....	2-6
2.5.1.6	Processing Time.....	2-6
2.5.1.7	Flexibility.....	2-6
2.5.1.8	Reliability.....	2-6
2.5.2	WLM Subsystem.....	2-7
2.5.2.1	Inputs.....	2-7
2.5.2.2	Outputs.....	2-7
2.5.2.3	Response Time.....	2-7
2.5.2.4	Limitations.....	2-7
2.5.2.5	Error Rate.....	2-8
2.5.2.6	Processing Time.....	2-8
2.5.2.7	Flexibility.....	2-8
2.5.2.8	Reliability.....	2-8
2.6	Data Base.....	2-8

		PAGE
2.6.1	TLM Subsystem.....	2-8
2.6.1.1	TLM Data Base Integrity.....	2-8
2.6.1.2	TL-Master.....	2-8
2.6.1.3	Skeleton.....	2-9
2.6.1.4	Monitor.....	2-9
2.6.2	WLM Subsystem.....	2-9
2.6.2.1	JCL-Master.....	2-9
2.6.2.2	TL-Master.....	2-9
2.6.2.3	Skeleton.....	2-9
2.7	General Description Of Inputs, Processing, Outputs.....	2-9
2.7.1	TLM Subsystem.....	2-9
2.7.1.1	TL-Master Conversion.....	2-9
2.7.1.1.1	Inputs.....	2-9
2.7.1.1.2	Processing.....	2-9
2.7.1.1.3	Outputs.....	2-9
2.7.1.2	Reinitialized Data Base.....	2-10
2.7.1.2.1	Inputs.....	2-10
2.7.1.2.2	Processing.....	2-10
2.7.1.2.3	Outputs.....	2-11
2.7.1.3	On-Line Executive.....	2-11
2.7.1.3.1	Inputs.....	2-11
2.7.1.3.2	Processing.....	2-11
2.7.1.3.3	Outputs.....	2-12
2.7.1.4	Automatic Capture and Update.....	2-12
2.7.1.4.1	Inputs.....	2-12
2.7.1.4.2	Processing.....	2-12
2.7.1.4.3	Outputs.....	2-13
2.7.1.5	TLM Reports.....	2-13
2.7.1.5.1	Inputs.....	2-13
2.7.1.5.2	Processing.....	2-14
2.7.1.5.3	Outputs.....	2-14
* 2.7.1.6	TLM Inquiry.....	2-14
2.7.1.6.1	Inputs.....	2-14
2.7.1.6.2	Processing.....	2-14
2.7.1.6.3	Outputs.....	2-14
* 2.7.1.7	Automatic Scratch.....	2-14
* 2.7.1.7.1	Inputs.....	2-14
2.7.1.7.2	Processing.....	2-15
2.7.1.7.3	Outputs.....	2-16
* 2.7.1.8	File-ID/File Control Change.....	2-16
2.7.1.8.1	Inputs.....	2-16
2.7.1.8.2	Processing.....	2-16
* 2.7.1.8.3	Outputs.....	2-16
* 2.7.1.9	COB Actions.....	2-16
* 2.7.1.9.1	Inputs.....	2-16
* 2.7.1.9.2	Processing.....	2-16



		PAGE
2.7.1.9.3	Outputs.....	2-17
2.7.1.10	Backup Transactions.....	2-17
2.7.1.10.1	Inputs.....	2-17
2.7.1.10.2	Processing.....	2-17
2.7.1.10.3	Outputs.....	2-18
2.7.2	WLM Subsystem.....	2-18
2.7.2.1	Schedule/Forecast.....	2-18
2.7.2.1.1	Inputs.....	2-18
2.7.2.1.2	Processing.....	2-19
2.7.2.1.3	Outputs.....	2-19
2.7.2.2	IMCV Build.....	2-19
2.7.2.2.1	Inputs.....	2-19
2.7.2.2.2	Processing.....	2-20
2.7.2.2.3	Outputs.....	2-20
2.7.2.3	Tape Labels.....	2-20
2.7.2.3.1	Inputs.....	2-21
2.7.2.3.2	Processing.....	2-21
2.7.2.3.3	Outputs.....	2-21
2.7.2.4	WLM Reports.....	2-21
2.7.2.4.1	Inputs.....	2-21
2.7.2.4.2	Processing.....	2-22
2.7.2.4.3	Outputs.....	2-22
2.7.2.5	Edit/Update.....	2-22
2.7.2.5.1	Inputs.....	2-22
2.7.2.5.2	Processing.....	2-23
2.7.2.5.3	Outputs.....	2-23
2.8	Field Assistance.....	2-23

## SECTION 3.

STAFF FUNCTIONS RELATED TO TECHNICAL OPERATIONS  
(BATCH)

3.1	Initiation Procedures.....	3-1
3.1.1	TLM Subsystem.....	3-1
3.1.2	WLM Subsystem.....	3-1
3.2	Staff Input Requirements.....	3-1
3.2.1	Input Formats.....	3-1
3.2.1.1	TLM Subsystem.....	3-1
3.2.1.1.1	Product Identity Card (PIC).....	3-1
3.2.1.1.2	Control Cards.....	3-2
3.2.1.1.3	Transaction Cards.....	3-5
3.2.1.1.4	Data Base Files.....	3-13
3.2.1.1.5	Other Files.....	3-14
3.2.1.2	WLM Subsystem.....	3-15
3.2.1.2.1	Product Identity Card (PIC).....	3-15
3.2.1.2.2	Request Cards.....	3-15
3.2.1.2.3	Package Cards.....	3-17
3.2.1.2.4	Transaction Cards.....	3-20
3.2.1.2.5	Data Base Files.....	3-22

	PAGE
3.2.1.2.6 Other Files.....	3-23
3.2.2 Composition Rules.....	3-23
3.2.2.1 TLM Subsystem.....	3-23
3.2.2.2 WLM Subsystem.....	3-23
3.2.3 Input Vocabulary.....	3-23
3.2.3.1 TLM Subsystem.....	3-23
3.2.3.2 WLM Subsystem.....	3-23
3.2.4 Sample Inputs.....	3-23
3.2.4.1 TLM Subsystem.....	3-23
3.2.4.2 WLM Subsystem.....	3-23
3.3 Output Requirements.....	3-24
3.3.1 Output Formats.....	3-24
3.3.1.1 TLM Subsystem.....	3-24
3.3.1.1.1 USAF Tape Library Lists.....	3-24
3.3.1.1.2 Data Base Files.....	3-28
3.3.1.2 WLM Subsystem.....	3-28
3.3.1.2.1 USAF Workload Lists.....	3-28
3.3.1.2.2 Data Base Files.....	3-30
3.3.1.2.3 Other Files.....	3-30
3.3.2 Sample Outputs.....	3-30
3.3.2.1 TLM Subsystem.....	3-30
3.3.2.2 WLM Subsystem.....	3-30
3.3.3 Output Vocabulary.....	3-31
3.3.3.1 TLM Subsystem.....	3-31
3.3.3.2 WLM Subsystem.....	3-31
3.4 Utilization of System Outputs.....	3-31
3.4.1 TLM Subsystem.....	3-31
3.4.2 WLM Subsystem.....	3-31
3.5 Recovery and Error Correction Procedures.....	3-31
3.5.1 TLM Subsystem.....	3-31
3.5.2 WLM Subsystem.....	3-31
 SECTION 4. FILE QUERY PROCEDURES (ON-LINE)	
4.1 System Query Capabilities (On-Line).....	4-1
4.1.1 Authorized Users.....	4-1
4.1.2 Remote Site Librarian.....	4-1
4.1.3 Host Site Librarian.....	4-1
4.2 Data Base Format.....	4-1
4.3 Query Preparation.....	4-1
4.4 Control Instructions.....	4-1
4.4.1 Authorized Users.....	4-2
4.4.2 Remote Site Librarian.....	4-3
4.4.3 Host Site Librarian.....	4-3
4.4.3.1 Normal Mode.....	4-4
4.4.3.2 Skeleton Mode (PCN SQ105-102).....	4-6
4.4.3.3 Monitor Mode (PCN SQ105-103).....	4-7
4.4.3.4 Control Mode (PCN SQ105-109).....	4-7

		PAGE
4.5	Error Message.....	4-8
4.5.1	Common Error Messages.....	4-8
4.5.2	Query Error Message (PCN SQ105-107)....	4-9
4.5.3	Normal Mode Error Messages (Host Site Librarian).....	4-9
4.5.4	Skeleton/Monitor Mode Error Messages (PCN SQ105-102 or PCN SQ105-103).....	4-10
4.5.5	Control Mode Error Messages (PCN SQ105-109).....	4-11

## LIST OF FIGURES

## Figures

2-01	TLM Subsystem Operational Functions.....	2-24
2-02	WLM Subsystem Operational Functions.....	2-27
2-03	TLM Subsystem Organization.....	2-28
2-04	WLM Subsystem Organization.....	2-29
2-05	TLM Reports Programs and Files.....	2-30
2-06	TLM Reports.....	2-30
3-01	TLM Subsystem Batch Input Requirements.....	3-32
3-02	WLM Subsystem Batch Input Requirements.....	3-34
3-03	Sample PIC and Control Cards.....	3-35
3-04	Sample Transaction Cards for TLM.....	3-36
3-05	Sample PIC and Request Cards.....	3-37
3-06	Sample Package Cards.....	3-38
3-07	Sample Transaction Cards for WLM.....	3-39
3-08	TLM Subsystem Batch Output Requirements.....	3-40
3-09	WLM Subsystem Batch Output Requirements.....	3-42
3-10	Master Conversion List.....	3-43
3-11	Reinitialized Data Base List.....	3-44
3-12	Master/Reel List.....	3-45
3-13	Master/File-ID List.....	3-46
3-14	Master/Monitor List.....	3-47
3-15	Master/File-CTL List.....	3-48
3-16	Master/Dump List.....	3-49
3-17	Skeleton List.....	3-50
* 3-17.1	Control Parameter Edit.....	3-50.1
* 3-17.2	TLM Inquiry Report.....	3-50.2
3-18	Monitor List.....	3-51
3-19	Off-Site Shipping List.....	3-52
3-20	Off-Site Storage List.....	3-53
3-21	999 Retention Tapes List.....	3-54
3-22	Scratch Candidate List.....	3-55
3-23	Clean/Certify Candidate List.....	3-56

## Figures

## PAGE

3-24	Available Scratch Tapes List.....	3-57
3-25	Automatic Scratch List.....	3-58
3-26	File-ID/File-CTL Change List.....	3-59
3-27	COB Actions List (Master).....	3-60
3-28	COB Actions List (Skeleton).....	3-61
3-29	COB Actions List (Monitor).....	3-62
3-30	COB Skeleton Removal.....	3-63
3-31	COB Update Errors List.....	3-64
*3-32	(Reserved).....	3-65
3-33	Backup Transaction List (Skeleton).....	3-66
3-34	Backup Transaction List (Monitor).....	3-67
3-35	Backup Transaction List (Master).....	3-68
3-36	Forecast List.....	3-69
3-37	Selected JCL List.....	3-70
3-38	IMCV Build List.....	3-71
3-39	Pull Tape List.....	3-72
3-40	Input Register.....	3-73
3-41	Output Register.....	3-74
3-42	Tape Label Error List.....	3-75
3-43	Tape Labels.....	3-76
3-44	SNUMB-Package Number X-REF List.....	3-77
3-45	PCN/RCS Reference List.....	3-78
3-46	D-Day Precedence List.....	3-79
3-47	OPR Reference List.....	3-80
3-48	JCL-Master List.....	3-81
4-01	Master Librarian Form.....	4-12
4-02	Skeleton Form.....	4-13
4-03	Monitor Form.....	4-14
4-04	Reel Update Form.....	4-15
4-05	Scr/Cln/Cert Reel Form.....	4-16
4-06	Report Request Form.....	4-17
4-07	Master User Form.....	4-18
4-08	Inquiry (Display).....	4-19
4-09	Inquiry (Latest).....	4-19
4-10	Inquiry (Query).....	4-20
4-11	Control Modification Form.....	4-21
4-12	On-Line Input Command Summary.....	4-22

## LIST OF ATTACHMENTS

## Attachments

1	TLM Subsystem I/O Vocabulary	A1-1
2	WLM Subsystem I/O Vocabulary	A2-1
3	TLM Subsystem Output Messages	A3-1
4	WLM Subsystem Output Messages	A4-1
5	TLM Data Base Access Subroutine	A5-1

DEPARTMENT OF THE AIR FORCE  
Headquarters US Air Force  
Washington DC 20330

CHANGE 1  
AFM 171-602  
Volume II  
19 January 1981

Automatic Data Processing Systems and Procedures

H6000 TAPE LIBRARY AND WORKLOAD MANAGEMENT  
SYSTEM: Q105/QD

USERS MANUAL

AFM 171-602, volume II, 14 November 1980, is changed as follows:

1. Purpose of Change. Modifies on-line subsystem to produce UZZ reports and edit date created.

2. Write-in Changes:

Page	Paragraph	Line	Action
2-15	2.7.1.6.2d		Add "NOTE: If reels are to be scratched through QD80FO then switch ON1 must also be set."
4-3	4.4.2a		Add "(3) All reports spawned through this function will have the UZZ classification caveats. If any other caveats are required, then the reports have to be generated through the batch system."
A3-10		20	Add "Date entered is beyond current date."

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

LEW ALLEN, JR., General, USAF  
Chief of Staff

VAN L. CRAWFORD, JR., Colonel, USAF  
Director of Administration

## SECTION 1. GENERAL

1.1 PURPOSE OF THE USERS MANUAL. The objective of the Users Manual for H6000 Tape Library and Workload Management System: Q105/QD is to provide the user's ADP personnel with the information necessary to effectively use the system.

### 1.2 PROJECT REFERENCES.

1.2.1 HISTORY. The original DPD issued by the Department of the Air Force in 1973 directed the development and implementation of a Workload Control and Tape Library System to support the USAF Major Command ADP Update Program. A B3500 translated Tape Library Subsystem was released in April 1974 and a B3500 translated Workload Control Subsystem was released in June 1974. By October 1974 the DPD was amended and released as DPD HAF-P-73-24. A more H6000 oriented QD system was released in February 1976. Since that time several surveys, field trips, analyses and modifications were completed to enhance the capabilities of the system. The System Design of the current modification effort, to place the Tape Library Subsystem on-line and reduce the run time of the entire QD System, was approved in November 1977. The modified system was released in September 1978.

1.2.2 DEVELOPMENT. The H6000 Tape Library and Workload Management System is a management information system produced by AFDSDC/PRD for the ADPS-10 sites. The QD System provides the H6000 DPI personnel with an expeditious method of managing production. Specifically the TLM Subsystem gives the host site librarian the tools to manage large magnetic tape libraries through automatic, on-line and/or batch update of the TLM data base. The TLM Subsystem also permits data base retrievals and report initiation. The WLM Subsystem gives the system monitors the tools to manage the scheduling of recurring batch jobs. It also initiates reports.

### 1.2.3 DOCUMENTS.

a. Dod 7935.1-S, Automated Data Systems Documentation Standards, Unclassified, defines the standard format used as the basis for the documentation standards.

b. AFM 171-100, Automated Data Systems (ADS) Standards, Unclassified, defines the design, programming and documentation standards for an Air Force initiated ADS.

c. AFM 171-602, volume III, Data Automation Workload Control and Library Maintenance System: P104A/QD, Unclassified, defines the current QD system.

d. AFM 171-602, volume I, H6000 Tape Library and Workload Management System: Q105/QD, Unclassified, is the Computer Operation Manual for the modified QD System.

17 April 1981

e. AFM 171-602, volume IV, H6000 Workload Control and Tape Library Maintenance System: P104A/QD, 25 Nov 77, Unclassified, describes the proposed Tape Library Maintenance Subsystem modification/enhancements to support the changing mission requirements of the MAJCOM DPIS.

f. AFM 171-602, volume IX, H6000 Tape Library and Workload Management System: Q105/QD, 1 May 78, Unclassified, provides Test Plan for the modified QD System.

g. AFM 171-602, volume XI, H6000 Tape Library and Workload Management System: Q105/QD, 1 Oct 78, Unclassified, defines Implementation Procedures for the modified QD System.

h. AFM 171-700, volumes I and II, H6000/N700 Mover Network Support Software System: P610/PN, 10 Sep 76, Unclassified, documents the Multiple Execution Report System.

i. DPD HAF-P-73-24, Nonfunctional Software Support for AF H6000 Community, 17 Sep 73, Unclassified, directs the development and implementation of the Workload Control and Tape Library System.

### 1.3 TERMS AND ABBREVIATIONS.

a. BMC - Bulk Media Conversion

\* b. CERTIFY - This term applies to a reel which has been degaussed and subsequently meets all other requirements for declassification.

c. COB - Close of Business

d. COBOL - Common Business Oriented Language

e. DPI - Data Processing Installation

f. GMAP - General Macro Assembly Program

g. GCOS - General Comprehensive Operating Supervisor (the H6000 Operating System)

h. GEUSER - User Supplied Master Mode Entry

i. GEWAKE - Program execution suspension

j. GFRC - General File and Record Control

k. Host Site - The DPI which has operational responsibility for the H6000 computer

l. I/C - Implementation and Conversion

m. IMCV - Input Media Conversion

n. JCL - Job Control Language

- o. MAJCOM - Major Command
- p. MERS - Multiple Execution Report System
- q. Package - One or more JCL records forming a controllable unit under the WLM subsystem
- r. PIC - Product Identity Card
- s. QD - System Code for the H6000 Tape Library and Workload Management System: Q105
- t. Remote Site - Any authorized unit using the processing capabilities of the H6000 computer but not located at the host site.
- u. SNUMB - System Number
- v. Spawn - An H6000 feature to allow an executing program to introduce another program to the operating system as a candidate for execution
- w. TLM - Tape Library Management
- x. TLM Data Base - Composed of the TL-Master file (subsystem control elements, a record for each unique reel number and error space), the Skeleton file (a record for each unique File-ID/File-CTL combination) and the Monitor file (a record for each unique system monitor code)
- z. TSS - Time Sharing Subsystem
- aa. TTY - Teletypewriter
- ab. VIP - Visual Information Projection
- ac. WLM - Workload Management

1.4 SECURITY AND PRIVACY. All data in this system is unclassified and has no privacy act restrictions.



## SECTION 2. SYSTEM SUMMARY

2.1 SYSTEM APPLICATION. The purpose of the H6000 Tape Library and Workload Management System: Q105/QD is to provide the H6000 DPI with an expeditious method of managing its production. The QD System is divided into two subsystems which provide maximum benefits when used together.

### 2.1.1 TLM SUBSYSTEM.

2.1.1.1 PURPOSE. This subsystem provides the DPI with the tools to manage large scale magnetic tape libraries.

### 2.1.1.2 CAPABILITIES AND IMPROVEMENTS.

a. With the on-line features, the TLM data base is more accurate and current, since the host site librarian can display, update, change, add, remove and verify information in the data base as required.

b. With the on-line features, the host site librarian has total TLM data base updating capabilities and may spawn a wide variety of management reports for all information in the data base or selectively for a particular remote site's data.

c. With the on-line features, the remote site librarian may spawn a wide variety of management reports for information in the data base originated for that remote site, flag reels as a candidate for scratching by the host site librarian and display skeleton/monitor data.

d. All authorized users, with a "Forms-Mode-Enabled" 7705 VIP, may request data on a particular reel, the latest three reels created for a specific File-ID or all reels in the data base for a given set of parameters.

e. All authorized users with a TTY compatible device (including 786 VIP) may request data on a particular reel or the latest three reels created for a specific File-ID.

f. With the use of random access for all TLM data base files and a reduction in the number of sorts performed by the programs, the run time for all retrievals and updates is reduced.

### 2.1.1.3 ADDITIONAL FEATURES.

a. With the automatic capture and update feature, the placing of data on newly created output reels into the TLM data base is immediate.

b. With the backup feature, all essential on-line features are accomplished through batch processing.

c. All reports are optional and are reformatted according to requests from the subsystem users and AFM 171-100 documentation standards.

**2.1.1.4 FUNCTIONS PERFORMED.**

- a. TLM Conversion
- b. Reinitialized Data Base
- c. On-line Executive
- d. Automatic Capture and Update
- e. TLM Reports
- f. COB Actions
- g. Automatic Scratch
- h. File-ID/File Control Change
- ~~i. Control Logs~~
- j. Backup Transactions

**2.1.2 WLM SUBSYSTEM.**

**2.1.2.1 PURPOSE.** This subsystem provides the DPI with the tools to manage the scheduling of recurring batch jobs.

**2.1.2.2 CAPABILITIES AND IMPROVEMENTS.**

a. With the use of random access for the TLM data base, the run time of interfacing WLM programs is reduced.

b. Some subsystem features were modified to reduce run time and delete options no longer used.

c. A subroutine is available which allows users to interface command unique programs with the TLM data base (see attachment 5).

**2.1.2.3 ADDITIONAL FEATURES.** Reports are reformatted according to requests from the subsystem users and AFM 171-100 documentation standards.

**2.1.2.4 FUNCTIONS PERFORMED.**

- a. Schedule/Forecast
- b. IMCV Build
- c. Tape Labels
- d. WLM Reports
- e. Edit/Update

## f. WLM Conversion

2.2 SYSTEM OPERATION. When referring to figure 2-01, the following general information is helpful for improved readability:

a. The "QD" prefix and "FC" suffix of the Program-ID are omitted from the chart.

b. The "SQ105-" prefix of the PCN-ID is omitted from the chart.

c. Under the columns "Input From" and "Output To", the letters indicate:

H - Host site librarian

M - Monitor responsible

O - Other authorized users

R - Remote site librarian

## 2.2.1 TLM SUBSYSTEM.

2.2.1.1 TL-MASTER CONVERSION. This batch-initiated run requires the execution of QD04FO. See figure 2-01 for more detail on 04.

2.2.1.2 REINITIALIZED DATA BASE. This batch-initiated run requires the execution of QD05FO. The program changes the TLM Subsystem control elements and/or the data base file sizes as required. If the QD System is implemented from scratch, this program initializes the TLM data base. See figure 2-01 for more detail on 05.

2.2.1.3 ON-LINE EXECUTIVE. This on-line initiated run requires the execution of QD10FO. This program controls modules which verify TLM Subsystem access, change TLM Subsystem control elements, initiate actions against the data base files, display formats and data and spawn reports. See figure 2-01 for more detail on 10.

2.2.1.4 AUTOMATIC CAPTURE AND UPDATE. This batch-initiated run requires the execution of QD20FC. This program captures data from the J\* file on newly created output tape reels and updates the TLM data base. See figure 2-01 for more detail on 20.

2.2.1.5 TLM REPORTS. These on-line spawned or batch-initiated runs require the execution of QD30FO, QD31FO, QD32FO, QD33FO, QD34FO, QD40FO, QD45FO, QD50FO, QD51FO, QD52FO, QD53FO, QD54FO, or QD55FO. The specified programs produce the requested reports as detailed in figure 2-01.

NOTE: WARNING: Insure that the volume of the printed output is carefully considered before requesting reports.

2.2.1.6 TLM INQUIRY. This batch-initiated run requires the execution of

QD6FO. This program allows users to tailor reports to their own specifications.

2.2.1.7 AUTOMATIC SCRATCH. This batch-initiated run requires the execution of QD6FO. This program lists and/or scratches all reel number records with a zero or negative retention. See figure 2-01 for more detail on 60.

2.2.1.8 FILE-ID/FILE CONTROL CHANGE. This batch-initiated run requires the execution of QD65FO. This program is used to effect mass File-ID/File Control changes or to change the File-ID/File Control on specified reel records. See figure 2-01 for more detail on 65.

2.2.1.9 COB ACTIONS. This batch-initiated run requires the execution of QD7FO. This program computes the retention remaining on tape reels. It also lists all records of the data base files acted on since the last run of QD7FO or QD05FO. See figure 2-01 for more detail on 70.

2.2.1.10 BACKUP TRANSACTIONS. This batch-initiated run requires the execution of QD8FO. This program performs individual and/or mass transactions against the data records of the TLM data base files. See figure 2-01 for more detail on 80.

## 2.2 WLM SUBSYSTEM.

2.2.1 SCHEDULE/FORECAST. This batch-initiated run requires the execution of QD9FO. This program selects or forecasts recurring batch jobs according to specified parameters. See figure 2-02 for more detail on 91.

2.2.2 IMCV BUILD. This batch-initiated run requires the execution of QD1FO. This program allows additions, modifications, and deletions to selected Packages. See figure 2-02 for more detail on 91.

2.2.3 TAPE LABELS. This batch-initiated run requires the execution of QD2FO. This program produces partially completed tape labels according to specified parameters. See figure 2-02 for more detail on 93.

2.2.4 WLM REPORTS. This batch-initiated run requires the execution of QD3FO and QD95FO. The specified program produces the requested report as detailed in figure 2-02.

2.2.5 EDIT/UPDATE. This batch-initiated run requires the execution of QD96FO. The program edits and initiates transactions against the JCL-master file. See figure 2-02 for more detail on 96.

2.3 SYSTEM CONFIGURATION. The QD System operates in a standard H6000 14-inch DPI. To use the on-line feature, a 7705 VIP with "Forms-Enabled" must be available.

## 2.4 SYSTEM ORGANIZATION.

2.4.1 TLM SUBSYSTEM ORGANIZATION. See figure 2-03.

2.4.2 WLM SUBSYSTEM ORGANIZATION. See figure 2-04.

2.5 PERFORMANCE.

2.5.1 TLM SUBSYSTEM.

2.5.1.1 INPUTS.

a. The number of control cards submitted is one Factor card, one to 40 Reel cards, one to 18 Site card sets and up to two File Action cards. Rate is card-reader dependent.

b. The number of Transaction Cards submitted is at least one per update, add, change or remove action. For scratch, clean, certify or shipping functions, up to 12 reel numbers per card are submitted. Rate is card-reader dependent.

c. The number of report requests submitted is one request per PIC. Rate is card-reader dependent.

d. The number of forms used is one form per add, change or remove action; one form per eight reel updates; one form per 50 reel scratch, clean, certify or shipping functions; two forms for requesting up to 13 report requests; one form for changing control elements. Rate is VIP operator key-in dependent.

e. The data base files contain one unique record per reel, Skeleton or Monitor. The number of records in a file is site-dependent. Rate is processor-dependent.

2.5.1.2 OUTPUTS.

a. The volume of lists from the Reinitialized Data Base depends on the size of the file, the number of control cards input and the number of errors found. The volume of lists from Reports depends on what was requested. The volume of lists from Backup depends on number of transactions and errors. The volume of lists from COB Actions depends on how dynamic the data base is for the period. Accuracy depends on original input. Rate is printer-dependent.

b. The number of forms displayed is one form per request. Accuracy depends on original input. Rate is VIP operator key-in dependent.

c. The data base files contain one unique record per reel, Skeleton or Monitor. The number of records is site-dependent. Rate is processor-dependent.

2.5.1.3 RESPONSE TIME. Core size, TSS size, jobs in the mix, equipment I/O rates, operator speed, etc. affect response time.

#### 2.5.1.4 LIMITATIONS.

a. The host site librarians may request all information on all data records. They may change most data and control elements. They may spawn reports for all or specified sites.

b. The remote site librarians may display information on TLM data base records, spawn reports and flag reel number records as a candidate for scratch for data originated for their own site.

c. All authorized users may display limited information on reel records.

d. On-line users need TSS and a 7705 VIP with "Forms-Mode-Enabled" or a TTY compatible device (includes 786 VIP).

e. EIS hardware is required for program execution.

#### 2.5.1.5 ERROR RATE.

a. On-line access is verified for all requests. Only authorized requests are accepted.

b. On-line transactions, which can be edited, have the errors flashed back on the VIP for correction.

c. Backup transactions, which can be edited, have errors listed for correction.

d. Automatic capture and update errors are held at the end of file RQD10F01U for listing during COB Actions.

2.5.1.6 PROCESSING TIME. This is site-dependent due to data base file sizes and site configuration of the software/hardware.

#### 2.5.1.7 FLEXIBILITY.

a. All TLM Subsystem control elements and data base file sizes are easily changeable.

b. Users may operate the TLM Subsystem in either the on-line or batch mode.

c. Automatic capture and update of reels is an optional feature.

d. All data base records are easily changeable.

#### 2.5.1.8 RELIABILITY.

a. All on-line capabilities, except report generation and scratch candidate flagging, are provided via batch backup.

b. The results of automatic capture and update are possible with on-line or batch backup functions.

c. All on-line or batch transactions may be verified on-line and/or with reports.

#### 2.5.2 WLM SUBSYSTEM.

##### 2.5.2.1 INPUTS.

a. The number of Request cards submitted is one per forecast period, one per schedule period, one per package, and/or one per tape label. Rate is card-reader dependent.

b. The number of Transaction cards submitted is one per add, replace or delete action. Rate is card-reader dependent.

c. The number of Packages submitted is one set per JCL string. Rate is card-reader dependent.

d. The number of Report Request cards submitted is one report per request card. Rate is card-reader dependent.

e. The data base files contain one unique record per reel, Skeleton, JCL data or JCL control. Rate is processor-dependent.

f. The size of the other files depends on the parameters originating the file creation. Rate is processor-dependent.

##### 2.5.2.2 OUTPUTS.

a. The volume of the lists from Forecast, Schedule, Package, and Tape Labels Requests depends on the parameters specified. The volume of the lists from Transaction cards and Packages depends on the number input and errors detected. The volume of the lists from Edit/Update depends on the number input and errors detected. The volume of the lists from report requests depends on the type of requests input. Accuracy depends on the original input. Rate is printer-dependent.

b. The data base file contains one unique record per reel, Skeleton, JCL data and JCL control. Accuracy depends on the original input. Rate is processor-dependent.

c. The size of the other files depends on the parameters originating the file creation. Accuracy depends on the original input. Rate is processor-dependent.

2.5.2.3 RESPONSE TIME. Core size, jobs in the mix, equipment operational rate, etc. affect response time.

2.5.2.4 LIMITATIONS. None.



2.5.2.5 ERROR RATE. All actions, which can be edited, have errors listed for corrections.

2.5.2.6 PROCESSING TIME. This is site-dependent due to file sizes and site configuration of the software/hardware.

2.5.2.7 FLEXIBILITY.

- a. All JCL data and JCL control records are easily changeable.
- b. All selected JCL strings are easily changeable before execution.

2.5.2.8 RELIABILITY.

a. The modified WLM Subsystem may be operated in parallel with the old subsystem to insure confidence.

- b. All transactions may be verified with reports.

2.6 DATA BASE.

2.6.1 TLM SUBSYSTEM.

2.6.1.1 TLM DATA BASE INTEGRITY. In order to provide as responsive a subsystem as possible, the TLM data base is established to allow concurrent access. To maintain data base integrity, all the TLM programs that update the data base have GCOS gating logic incorporated to prevent recursive I/Os. This logic in each program tests a control gate to see if the data base is busy prior to updating. If the gate is "shut", the batch programs repeat 30-second GEWAKE's and tests of the gate for approximately five minutes; and the on-line program displays "FILE BUSY - TRY LATER". When the gate is found "open", it is "shut" while the TLM program performs its update and then "opened" again after the update. In the event of a system or program failure which results in the TLM control gate being permanently "shut", two methods are provided to "open" the gate:

- a. Batch. Execute program QD55FO with the switch ON1 option (see paragraph 2.7.1.2.2.b).
- b. On-line. The host librarian may execute the "CONTROL" Mode (see paragraph 4.4.3.4).

2.6.1.2 TL-MASTER. This random access file contains three types of information:

a. Control elements which are used to verify subsystem and data access, display and report destination, data base file sizes, report computational factors and subsystem switch settings. This data may be displayed or listed on a report.

b. Reel data which is used to identify the contents of information on the reel to the users of the subsystem. Additional utility information



is present for the host site librarian. This data may be displayed or listed on a report.

c. Error records for those automatic updates that could not be completed. This data is listed in the COB Action report.

2.6.1.3 SKELETON. This random access file contains additional file identifying information which is used in updating the reel data of the TL-Master file. The data may be displayed or listed on a report.

2.6.1.4 MONITOR. This random access file contains identifying information about the system Monitors who work with the TLM Subsystem. The data may be displayed or listed on a report.

#### 2.6.2 WLM SUBSYSTEM.

2.6.2.1 JCL-MASTER. This sequential access file contains the JCL cards and WLM Subsystem control cards which are used to execute jobs and prepare reports. This data is only listed on reports.

2.6.2.2 TL-MASTER. This random access file provides the WLM Subsystem with current reel information for the JCL Tape cards.

2.6.2.3 SKELETON. This random access file provides the WLM Subsystem with file-identifying information for printing tape labels.

#### 2.7 GENERAL DESCRIPTION OF INPUTS, PROCESSING, OUTPUTS.

##### 2.7.1 TLM SUBSYSTEM.

###### 2.7.1.1 TL-MASTER CONVERSION.

###### 2.7.1.1.1 INPUTS.

a. Control Cards. QD04FO requires no card input.

b. Old Data Base Files. The master records of file RQD10F01U are input for reformatting of the control record information.

###### 2.7.1.1.2 PROCESSING.

Program QD04FO. The program inputs file RQD10F01U and reformats the control record into a new format usable by the QD system. All other data on file RQD10F01U is copied on to a new file without changing any of the data.

###### 2.7.1.1.3 OUTPUTS.

a. New Data Base Files. The TLM data base file RQD10F01U is now initialized for system use.

b. Conversion Lists. The host site librarian working with the QD

System Monitor reviews all conversion lists for correct TLM data base initialization. PCN SQ105-042 lists file action completion.

#### 2.7.1.2 REINITIALIZED DATA BASE.

##### 2.7.1.2.1 INPUTS.

a. Control Cards. The host site librarian working with the QD system monitor prepares the cards (SQ105-051) for batch input to file CQD05FORU. These cards contain data identifying the host and remote sites, subsystem computational factors, switch settings and ranges of reel numbers. The data is used to reinitialize the TLM Subsystem control elements and data base.

b. Data Base Files. RQD10F01U with the TLM Subsystem control elements, reel records and error record space, RQD10F02U with the Skeleton records and RQD10F03U with the Monitor records are input as required.

##### 2.7.1.2.2 PROCESSING.

a. Normal. No switches are set on and/or File Action Cards present in the control cards for the Skeleton and Monitor files. Program QD05FO edits input from file CQD05FORU. If any errors are found, the program aborts after listing the control cards. If no errors are found, the program uses the input to reinitialize the TLM Subsystem control elements in front of file RQD10F01U. The size of this file is adjusted depending on the ranges of reel numbers specified and all reel records are transferred. Space is provided at the end of the file for possible automatic update error records. If a Skeleton File Action Card is present, the size of file RQD10F02U is adjusted depending on the number of records in the file and all Skeleton records are transferred. If a Monitor File Action Card is present, the size of RQD10F03U is adjusted depending on the number of records in the file and all Monitor records are transferred. If RQD10F02U or RQD10F03U are reinitialized, a space for file growth is provided in each file. Using file PQD05FOLU, the program provides a list of all control cards and file action completions. A FMS save activity should be run before executing this normal processing since an abort will release the files.

b. Switch ON1. Only Factor and Site Control Cards are present in file CQD05FORU. Following the edit procedures as outlined in paragraph a, QD05FO uses the input to reinitialize the TLM Subsystem control elements. No other actions are taken on the data base files. Using file PQD05FOLU, the program provides a list of all control card actions completed.

NOTE: The ON1 switch setting provides an automatic function to "open" the TLM control gate left "shut" by a system or program failure (see paragraph 2.6.1.1). Care should be taken to insure no batch or on-line TLM update functions are being accomplished during this execution.

c. Switch ON2. If the data base is being initialized from scratch, QD05FO creates files accordingly. Control cards are present in file

QD05FORU. Following the edit procedures as outlined in paragraph a, QD05FO uses the input to initialize the TLM Subsystem control elements in front of file RQD10F01U. The size of the file is adjusted depending on the ranges of reel numbers specified. Space is provided at the end of the file for possible automatic update error records. RQD10F02U is automatically created with 1000 records plus space for file growth. RQD10F03U is automatically created with 100 records plus space for file growth. Using file PQD05FOLU, the program provides a list of all control cards and file action completions.

NOTE 1: During RQD10F01U reinitialization/initialization as described in paragraph 2.7.1.1.2, all new reel number records are set to SCRATCH and DATE-CERTD will be set to the system date and NUM-CLENS and NUM-CERTS will be set to 01.

NOTE 2: If the data base files cannot be accessed due to the control gate being "shut" for an extended period, the Reinitialized Data Base activity will abort (see paragraph 2.6.1.1).

#### 2.7.1.2.3 OUTPUTS.

a. Data Base Files. The TLM data base files RQD10F01U, RQD10F03U and/or RQD10F02U are initialized or reinitialized for system use according to the specifications.

b. Reinitialized Data Base List. The host site librarian working with the QD system monitor reviews the list for correct TLM data base actions. PCN SQ105-052 from file PQD05FOLU, lists all control card input, possible input errors and file action completions as appropriate.

#### 2.7.1.3 ON-LINE EXECUTIVE.

##### 2.7.1.3.1 INPUTS.

a. 7705 VIP Forms. The host site librarian can change most reel data through PCN SQ105-101; add, change and remove most Skeleton data through PCN SQ105-102; add, change or remove most Monitor data through PCN SQ105-103; update reel data through PCN SQ105-104; scratch, clean or certify and ship/return reels through PCN SQ105-105; spawn TLM reports through PCN SQ105-106; and change control elements through PCN SQ105-109. The remote site librarians can spawn TLM reports through PCN SQ105-106 for their own site data, flag a number record(s) as a scratch candidate and display skeleton/monitor records.

b. Data Base Files. PQD10F01U with TLM Subsystem control elements, reel records and error record space, RQD10F02U with Skeleton records and RQD10F03U with Monitor records are input as required.

##### 2.7.1.3.2 PROCESSING.

a. All TLM data base accesses are verified by QD10FO for authorized use, type of actions allowed and destination of outputs. Errors detected during input functions are displayed on the requesting form.

b. File RQD10F01U. Control elements are changed and displayed; reel data is updated, changed, or displayed; reel scratches, cleans, and certifies are indicated; and actions are annotated. Searches for the latest three reels or all reels of a specified File-ID/File-CTL are made.

c. File RQD10F02U. Skeleton data is added, changed, removed and displayed. Data is used in updating reel records.

d. File RQD10F03U. Monitor data is added, changed, removed and displayed.

e. The program sets the action indicator for each data record acted on.

#### 2.7.1.3.3 OUTPUTS.

a. 7705 VIP Forms. The host site librarian can display reel data through PCN SQ105-101, Skeleton data through PCN SQ105-102, Monitor data through PCN SQ105-103 and control elements through PCN SQ105-109. The host site librarian, remote site librarians and other authorized users can display limited reel data on a single reel, the latest three reels or all reels according to specified parameters through PCN SQ105-108. The remote site librarians and other authorized users can display limited reel data through PCN SQ105-107.

b. TTY Compatible Device. Any authorized users can display limited reel data of a single reel or the latest three reels by File-ID through PCN SQ105-108.

c. Spawned TLM Reports. A string of JCL activities spawn the requested reports and if directed, queue the reports for reproduction.

NOTE: WARNING: Insure that the volume of the printed output is carefully considered before spawning reports (reference AFM 171-602, volume I, attachment 1).

#### 2.7.1.4 AUTOMATIC CAPTURE AND UPDATE.

##### 2.7.1.4.1 INPUTS.

a. J\*. This file contains the Tape Label Processing Execution Report Messages on newly created output reels. Access to this information is initiated by a \$ SELECT card, at the end of the user's JCL string, which calls QD20FO.

b. File RQD10F02U. This file contains additional information for the updating of reel data.

##### 2.7.1.4.2 PROCESSING.

a. With the Inhibit Automatic Update Switch off and following the users call to QD20FO, this program uses the USAF Standard GEUSER module

as designed for the Multiple Execution Report System. This module provides QD20FO with the J\* file address of the user execution report requesting reel number capture. QD20FO searches the JCL portion of the execution report for all valid output TAPE records, e.g. (\$ TAPEn fc,lud,,,,file-id---file-ctl). Appropriate information is tabled. The table is then matched against all output Tape Label messages on the remainder of the execution report. Appropriate information is extracted and combined with Skeleton information from RQD10F02U to update the reel information on RQD10F01U. All updates of individual reel records result in the action indicator being set on. If an update cannot be accomplished, an appropriate error record will be created on RQD10F01U for subsequent printing by COB Actions.

b. QD20FO processes the various \$ TAPE cards on J\* as follows:

(1) Input Tapes (\$ TAPEn fc,lud,,nnnnn,,file-id---file-ctl) - all Tape Label Messages for this file code and activity are ignored.

(2) Scratch Tapes (\$ TAPEn fc,lud) - all Tape Label Messages for this file code and activity are ignored.

(3) Single/Multireel File (\$ TAPEn fc,lud,,,,file-id file-ctl) - the File-ID/File-CTL is utilized to search the Skeleton File for additional information to update the proper reel number record.

(4) Multifile Reel (\$ TAPEn fc2,lud,,,,file-id2---file-ctl2) - the File-ID/File-CTL of the 1st TAPE card is utilized to search the Skeleton File for additional information to update the proper reel number record. All subsequent updates to the same reel number record will be printed by COB Actions as a multifile reel update attempt.

(5) Multiple Single/Multireel File w/common File Code (same as Single/Multireel File). Due to the unavailability of File-ID/File-CTL for subsequently created files, the partial information will be printed by COB Actions. These records will require manual updating.

NOTE: If the data base files cannot be accessed due to the control gate being "shut" for an extended period, the Automatic Capture and Update activity will abort (see paragraph 2.6.1.1).

2.7.1.4.3 OUTPUTS. RQD10F01U contains a record with the reel data on a newly created tape for other system functions to use. Error records are held for listing during COB Actions.

2.7.1.5 TLM REPORTS.

2.7.1.5.1 INPUTS. The reports are spawned by a JCL string of activities from QD10FO or individually batch-initiated. The host site librarians indicate on PCN SQ105-106 whether they want the specified reports for all sites or a particular site. This same indication can be given on the PIC for batch jobs. The remote site librarians may only request reports on-line or batch for their own sites. See figure 2-05 for additional details.

2.7.1.5.2 PROCESSING. Figures 2-05 and 2-06 list all programs, their input and output files, data base files accessed and the information obtained for the reports. Data base file searches are site-code oriented. QD30FO can be executed with optional switch ON1 which will result in listing all reels including those in scratch status. QD32FO can be executed with the optional switch setting ON1 which will cause the suppression of all reel records that have not been created within the last seven days. QD40FO can be executed with the optional switch setting ON1 which will result in the report being produced in system monitor sequence. QD50FO uses the Backup information for computation. QD53FO uses the Retention Remaining for computations. QD54FO uses the Clean Factor, Date Cleaned, Certify Factor and Date Certified for computations.

2.7.1.5.3 OUTPUTS. Figure 2-06 lists all outputs. The user of the report depends on whether the host site or remote site librarians requested it. If directed on PCN SQ105-106, the specified reports are queued for reproduction.

\* 2.7.1.6 TLM INQUIRY.

2.7.1.6.1 INPUTS. Reports are designed by the user utilizing parameters described in figures 2-08, 2-09 and 2-10. File RQD10F01U is accessed to provide the requested data.

2.7.1.6.2 PROCESSING. Figure 2-07 provides the table of items available to the report writer. The reports are requested and designed by using a PCN card and three control cards which define the title, content organization, and select/sort criteria.

2.7.1.6.3 OUTPUTS.

a. Control Parameter Edit. A listing of the PCN card and all control cards used to design the report, plus any associated error messages. If any of the control cards are in error, the program is aborted.

b. Inquiry Report. The title of this report is created by the user with the TITLE card. It lists the items requested on the PARAMS cards for each record designated on the SELECT card. The SELECT card provides the capability of selecting which records will be on the report and the sort sequence for the report.

2.7.1.7 AUTOMATIC SCRATCH.

2.7.1.7.1 INPUTS.

a. PCN Card. The librarian working with the QD system indicates on PCN Q105-602 whether listings/actions for all sites or a particular site is required.

NOTE: The librarian must also specify the site code and current password assigned to prevent unauthorized modification of the TL Master.

b. Transaction Cards. The librarian may optionally specify certain File-IDs and/or reels that are not to be scratched.

c. File RQD10F01U. This file contains all reel number records.

#### 2.7.1.7.2 PROCESSING.

a. Normal. With no switches set, the TL Master is scanned for reel number records with zero or negative retention. All reel number records meeting this criteria, excluding last reel/set, off-site, and those specified via control card input, are set to scratch status and a listing is produced to assist the librarian in removing external labels from the scratched reels.

b. Switch ON1. All reel number records with zero or negative retention, including last reel/set and off-site reels are listed only. This option will allow the librarian to return reels on-site and determine if last reels/sets are to be scratched.

c. Switch ON2. Same as the normal processing described above except that last reels/sets are also scratched.

NOTE: If the TL Master cannot be accessed due to the control gate being "shut" for an extended period, the automatic scratch activity will abort (see paragraph 2.1.1.1).

d. Switch ON3. If this switch setting is used, a card will be punched for each reel with zero or negative retention. This card will be in a format suitable to input into QD80F0 if it is desirable to use this method for scratching tapes. It will also give the librarian a handy tool to be used when manually pulling reels from the library for label removal.

\* e. Switch ON4. With switch ON4 set on, all reels which have met the requirements for certification (been degaussed) will have the classification set to "U" and the number certified/date certified will be updated. In addition, the word "CERTIFY" must be added to columns 40-46 of the PCN card.

NOTE: If reels are to be scratched through QD80F0 then switch ON1 must also be set.

#### 2.7.1.7.3 OUTPUTS.

a. Control Card Edit List. A listing containing the input control cards as well as any associated error messages are produced. If any of the control cards are in error, the program is aborted, thus preventing the unintentional scratching of any reel records.

b. Automatic Scratch List. A reel number sequence listing is produced that reflects the partial content of each reel number record prior to the scratch function. All last reel/set and off-site reels are flagged when the ON1 option is executed.



c. File RQD10F01U. This file contains all the reel number records.

d. File CQD60F0PU. This file will be produced whenever Switch ON3 is set on. It contains a record for each reel which contains zero or negative retention. The records are in a format usable as input into QD80F0 to scratch reels.

#### 2.7.1.8 FILE-ID/FILE CONTROL CHANGE.

##### 2.7.1.8.1 INPUTS.

a. PCN Card. The librarian working with the QD system indicates on PCN SQ105-652 whether listings/actions for all sites or a particular site is required.

NOTE: The librarian must also specify the site code and current password assigned to prevent unauthorized modification of the TL Master and TL Skeleton.

b. Transaction Cards. The librarian specifies the File-IDs/File Controls to be changed on the TL Skeleton and/or TL Master via control card input.

c. File RQD10F01U. This file contains all reel number records.

d. File RQD10F02U. This file contains all skeleton records.

2.7.1.8.2 PROCESSING. QD65F0 edits the control cards and then makes appropriate changes to data records of RQD10F01U and RQD10F02U.

NOTE: If the TL Master cannot be accessed due to the control gate being "shut" for an extended period, the File-ID/File Control activity will abort (see paragraph 2.6.1.1).

##### 2.7.1.8.3 OUTPUTS.

a. Control Card Edit List. A listing containing the input control cards as well as any associated error messages is produced.

b. File-ID/File Control Change List. A File-ID/File Control sequence listing is produced that reflects the skeleton and reel number records that have been changed as a result of this activity.

#### 2.7.1.9 COB ACTIONS.

2.7.1.9.1 INPUTS. The TLM data base files RQD10F01U, RQD10F02U and RQD10F03U are accessed by the host site librarian through the batch-initiated program QD70F0.

##### 2.7.1.9.2 PROCESSING.

a. File RQD10F02U. For each data record that indicates some action has been taken, QD70F0 lists the record and resets the action indica-



tors. The program deletes records that have remove indicators set. All records with the change/remove flag set are tabled for subsequent reel number record modification.

b. File RQD10FO3U. For each data record that indicates some action has been taken, QD70FO lists the record and resets the action indicators. The program deletes records that have remove indicators set.

c. File RQD10FO1U. This file is accessed last by QD70FO. For each data record that indicates some action has been taken, QD70FO lists the record and resets the indicators. For reel records the Retention Remaining is recomputed. The program lists information on the automatic capture and updates that were not completed and the Skeleton records that were removed. All reel number records that match the tabled skeleton records are acted upon. CHANGE - any changed data element(s) with the exception of File-ID, File CTL, Security and Retention Remaining will be updated in the appropriate reel number record(s). REMOVE - all appropriate reel number records, excluding off-site, are scratched.

d. Each time QD70FO is run, the system date is verified via the console operator and a Last-Date-Accessed control element is changed. This is done so that the correct date is used when the program computes the Retention Remaining.

e. For the COB Action run to be the most efficient, all other actions against the data base files should be completed first. The TLM Report programs will be more accurate if run after COB Actions.

NOTE: If the data base files cannot be accessed due to the control gate being "shut" for an extended period, the COB Action activity will abort (see paragraph 2.6.1.1).

2.7.1.9.3 OUTPUTS. The data base files are purified and PCN SQ105-702 from file PQD70FOLU lists all the data records having actions taken, incomplete automatic updates, and removed Skeleton and Monitor records for review by the host site librarian.

\*

#### 2.7.1.10 BACKUP TRANSACTIONS.

2.7.1.10.1 INPUTS. The host site librarian can prepare a variety of Transaction Cards for action on the TLM data base files RQD10FO1U, RQD10FO2U and RQD10FO3U. These cards (PCN SQ105-801) are batch input to QD80FO from file CQD80FORU.

#### 2.7.1.10.2 PROCESSING.

a. QD80FO edits the Skeleton Transaction Cards and then performs removal, add and change actions in that order on the data records of RQD10FO2U.

NOTE: If the data base files cannot be accessed due to the control gate being "shut" for an extended period, the Backup Transactions activity will abort (see paragraph 2.6.1.1).

2.7.1.10.3 OUTPUTS. PCN SQ105-802 from file PQD80FOLU lists all transactions input and possible edit errors for the host site librarian's review.

## 2.7.2 WLM SUBSYSTEM.

### 2.7.2.1 SCHEDULE/FORECAST.

#### 2.7.2.1.1 INPUTS.

a. Request Cards. The system monitor prepares the desired cards (PCN SQ105-901) for batch input to file QD90FORU. The cards are edited by QD90FO. If a Forecast Request Card is used, the jobs scheduled during the time period specified on the card are listed. If a Schedule Request Card is used, all JCL packages scheduled for the indicated date are selected for execution. If Package Request Cards are used, all JCL Packages indicated are selected for execution.

b. JCL-Master File. FQD96FOTU is a sequential access file containing all the JCL packages used for executing recurring batch jobs. Each JCL package should contain #SCHD records indicating the months and days the job should normally be executed. #PCN and #OPR records are also present in the file.

c. TL-Master File. RQD10FOLU is a random access file containing the reel records that may be used as input tapes for the scheduled JCL packages.

#### 2.7.2.1.2 PROCESSING.

a. When a Forecast Request Card is input, QD90FO searches FQD96FOTU for all JCL packages with #SCHD records having month and day indicators falling within the time period on the Forecast Request. The SNUMB, IDENT and USERID JCL records of these packages are listed once and a count is listed for the number of scheduled days within the requested period. If Switch 19 is set on, the list is sorted by the command code found in the IDENT record (positions 22 and 23) of the JCL package.

b. When a Schedule Request Card is input, QD90FO searches FQD96FOTU for all JCL packages with #SCHD records having a month and day matching the one indicated on the Schedule Request. All the JCL records of the package are selected for file FQD90FOTU and listed in file PQD90FOLU. If Switch 18 is set on, the security classification indicated in the Schedule Request is matched against the security classification (column 46) of the IDENT record for selecting JCL packages.

c. When Package Request Cards are input, QD90FO searches FQD96FOTU for all matching JCL package numbers. All the JCL records of the package are selected for file FQD90FOTU and listed in file PQD90FOLU.

If the packages are selected for other than Today's-Date in the computer, a For-Date card may be input specifying a month and day.

d. Schedule Request and Package Request Cards may be input together and both will be used to select JCL packages. No For-Date Card is used in this case.

e. For all selected Packages with \$ TAPE Cards having 99999 as the input reel number, QD90FO searches RQD10F0LU for the most current reel number for the specified File-ID/File-CTL.

f. If Switch 20 is set on, the passwords in the USERID and PRMFL records are printed on all listings.

#### 2.7.2.1.3 OUTPUTS.

a. From PQD90F0LU, PCN SQ105-902 forecasts all the JCL packages falling within the scheduling parameters. This list is reviewed by the requesting System Monitor for planning purposes.

b. From PQD90F0LU, PCN SQ105-903 lists all the JCL records of the selected packages. All the current reel numbers for selected input tapes, that were found in RQD10F0LU, are listed. The number of scratch reels needed for a job is also indicated. The list is reviewed by the requesting System Monitor for possible additions, changes or deletions to the scheduled runs.

c. Request Cards failing QD90FO edits are indicated on the appropriate listing.

d. FQD90F0TU contains all the selected JCL records, current input reel numbers and #PCN records of a package for input to QD91FO.

#### 2.7.2.2 IMCV BUILD.

##### 2.7.2.2.1 INPUTS.

a. Transaction Cards and Packages. The System Monitor prepares the cards and packages (PCN SQ105-911) for batch input to file CQD91FORU.

NOTE: WARNING: These inputs are not edited by QD91FO. These inputs are optional.

b. Selected-JCL File. FQD90F0TU is a sequential access file containing all the selected JCL records, current input reel numbers and #PCN records from QD90FO.

c. JCL-Master File. FQD96F0TU is a sequential access file containing all the JCL packages used for executing recurring batch jobs. #PCN and #OPR records are also present in the file. This input is optional.

##### 2.7.2.2.2 PROCESSING.

a. If any additions, replacements or deletions of individual records and/or Packages are input through file CQD91FORU, QD91FO acts upon it along with input from FQD90FOTU and creates FQD91FOTU. If Switch 18 is set on, new JCL packages may also be added to FQD91FOTU from FQD96FOTU. Even if there are \$ TAPE cards having 99999 as a reel number, no check of RQD10FOLU will be made for current input reel numbers.

b. As FQD91FOTU is created, certain execution information is entered into file PQD91FOLU for listing on PCN SQ105-912.

c. If Switch 23 is set on, QD91FO enters current reel numbers into file PQD91FOLU for listing on PCN SQ105-913.

d. If Switch 24 is set on, QD91FO enters #PCN information for input products into file PQD91FOLU for listing on PCN SQ105-914.

e. If Switch 25 is set on, QD91FO enters #PCN information for output products into file PQD91FOLU for listing on PCN SQ105-915.

f. If Switch 20 is set on, the passwords in the USERID and PRMFL records are printed on all listings.

#### 2.7.2.2.3 OUTPUTS.

a. FQD91FOTU is used by the computer operators to execute the Packages. It may also be used as input to QD93FO for tape label printing.

b. From PQD91FOLU, PCN SQ105-912 lists additional run information to help computer operators execute the jobs on FQD91FOTU.

c. From PQD91FOLU, PCN SQ105-913 lists the input tape reels to be pulled by the host site librarian and the number of scratch tapes needed to execute the jobs on FQD91FOTU.

d. From PQD91FOLU, PCN SQ105-914 lists information on input PCN/RCS products needed by production control to execute the jobs on FQD91FOTU.

e. From PQD91FOLU, PCN SQ105-915 lists information on output PCN/RCS products produced by the jobs on FQD91FOTU for production control distribution.

#### 2.7.2.3 TAPE LABELS.

##### 2.7.2.3.1 INPUTS.

a. Label Request Cards. The system monitor prepares the Label Request Cards (PCN SQ105-931) for batch input to file CQD93FORU. These inputs are edited by QD93FO. This input is optional.

b. IMCV Build File. FQD91FOTU is a sequential access file containing the JCL records of the packages to be executed. This input is optional.

c. Skeleton File. RQD10FO2U is a random access file containing data about File-IDs.

#### 2.7.2.3.2 PROCESSING.

a. QD93FO edits the Label Request cards if they are present in CQD93FORU.

b. If Switch 1 is set on, FQD91FOTU is input. If Switch 2 is set on, CQD93FORU is input. If Switch 3 is set on, FQD91FOTU and CQD93FORU are input. QD93FO matches the output \$ TAPE cards and/or the Label Request cards against the Skeleton records of RQD10FO2U. From this data QD93FO prints partially completed tape labels in file PQD93FOFU.

c. If Switch 4 is set on, the tape labels are printed in File-ID/File-CTL sequence. If Switch 5 is set on, the tape labels are printed in SNUMB sequence. Without either Switch 4 or 5 set on, the tape labels are printed in a first-in first-out sequence.

#### 2.7.2.3.3 OUTPUTS.

a. From PQD93FOFU, PCN SQ105-933 lists partially completed labels. Normally, this file is sent to tape so that a BMC activity can be run later. In this way, AF Form 606, ADPE Tape Identification, can be mounted and aligned on the first three test labels printed for the computer operator.

b. If errors were found on Label Request cards or no matches were found in RQD10FO2U, file PQD93FOLU is produced and the errors are listed on PCN SQ105-932 for review by the System Monitor.

#### 2.7.2.4 WLM REPORTS.

##### 2.7.2.4.1 INPUTS.

a. Management Reports Card. The System Monitor prepares the card (PCN SQ105-951) for batch input to file CQD95FORU. The card is edited by QD95FO.

b. JCL-Master File. FQD96FOTU is a sequential access file containing JCL packages with #PCN and #OPR records.

##### 2.7.2.4.2 PROCESSING.

a. QD94FO accesses FQD96FOTU to enter the matching SNUMB-Package numbers into file PQD94FOLU.

b. QD95FO checks PCN SQ105-951 to see which reports are requested. The #PCN and/or #OPR records of FQD96FOTU are sorted in the requested sequence and sent to file PQD95FOLU.

#### 2.7.2.4.3 OUTPUTS.

a. From PQD94FOLU, PCN SQ105-942 lists the matching SNUMB - Package numbers in SNUMB sequence for the System Monitor to use as a handy cross-reference.

b. From PQD95FOLU, PCN SQ105-952 lists the PCN/RCS reference information in one of the following sequences:

- (1) PCN/RCS
- (2) SNUMB, PCN/RCS
- (3) Command Code, PCN/RCS
- (4) Command Code, SNUMB, PCN/RCS

c. From PQD95FOLU, PCN SQ105-953 lists the D-Day Precedence information in one of the following sequences:

- (1) Precedence, PCN/RCS
- (2) Precedence, SNUMB, PCN/RCS
- (3) Command Code, Precedence, PCN/RCS
- (4) Command Code, Precedence, SNUMB, PCN/RCS

d. From PQD95FOLU, PCN SQ105-954 lists the OPR reference information in one of the following sequences:

- (1) OPR, Command Code
- (2) Command Code, OPR

#### 2.7.2.5 EDIT/UPDATE.

##### 2.7.2.5.1 INPUTS.

a. Transaction Cards and Packages. The System Monitor prepares the cards and packages (PCN SQ105-961) for batch input to file QD96FORU. The inputs are edited by QD96FO.

b. JCL-Master File. QD96FOTU is a sequential access file containing all the packages used for executing recurring batch jobs. Besides containing JCL records, the packages contain #SCHD and #PCN records for subsystem use. The last package in the file contains only #OPR records for report use.

##### 2.7.2.5.2 PROCESSING.

a. After editing the card input, QD96FO adds, replaces and/or deletes individual records or entire packages of QD96FOTU. QD96FO maintains

the ascending package sequence numbers and the ascending record sequence numbers within a package. Entire new packages are added just ahead of #OPR record package. If a package is deleted, a single \$ SNUMB card is left with the SNUMB equal to "EMPTY". In this way the rest of the packages maintain their same numbers and relative position in the file. The "EMPTY" SNUMB card may be replaced and another package added in behind it.

b. If Switch 18 is set on, file FQD96FOTU is initialized from scratch. If Switch 19 is set on, the entire FQD96FOTU file is listed. If Switch 19 is not set on, only the Packages having changes are listed. If Switch 20 is set on, the passwords in the USERID and PRMFL records are printed. If Switch 21 is set on, an entire OPR package is input.

#### 2.7.2.5.3 OUTPUTS.

a. From PQD96FOLU, PCN SQ105-962 lists the changed Packages or the entire file (depending on the setting of Switch 19) for review by the system monitor to check for errors.

b. A new FQD96FOTU is now available for other subsystem runs.

2.8 FIELD ASSISTANCE. Contact AFSDSC/PRDC, AUTOVON 921-4069, for assistance in determining the need for the preparation of an Incident Report.

PRG ID	INPUT			OUTPUT		
	FR	PCN	FILE	FUNCTION	FILE	PCN TO
04	H		RQD10FO1U	Old Master Records	Convert TLM data base to new control record format	RQD10FO1U PQD04FOLU 042 H
05	H	051	CQD05FORU RQD10FO1U RQD10FO2U RQD10FO3U	Control cards TL Master file Skeleton file Monitor File	List control cards and file actions, reinitialize data base files	PQD05FOLU 052 H RQD10FO1U H RQD10FO2U H RQD10FO3U H
10	H	101	RQD10FO1U	Change reel data	Display reel data	RQD10FO1U 101 H
	H	102	RQD10FO2U	Add, change and remove skeleton data	Display skeleton data	RQD10FO2U 102 H
	H	103	RQD10FO3U	Add, change and remove monitor data	Display monitor data	RQD10FO3U 103 H
	H	104	RQD10FO1U	Update reel data		RQD10FO1U H
	H	105	RQD10FO2U	Scratch, clean, certify, ship and return reels		RQD10FO2U H
	HR	106	RQD10FO1U RQD10FO2U RQD10FO3U	Spawn TLM reports	If directed, reports are queued for reproduction	HR
20	HO		J* RQD10FO2U	Automatic capture and update of reel data	Display individual reel data Display series of reel data Display control elements	RQD10FO1U 107 RO RQD10FO1U 108 HRO RQD10FO1U 109 H
30	HR	301	CQD30FORU RQD10FO1U	PIC request by site code	List all reels for site code	RQD10FO1U 302 HR
31	HR	311	CQD31FORU RQD10FO1U	PIC request by site code	List all reels except scratch for site code	PQD31FOLU 312 HR
32	HR	321	CQD32FORU RQD10FO1U RQD10FO3U	PIC request by site code	List all reels except scratch for site code	PQD32FOLU 322 HR

FIGURE 2-01. TLM Subsystem Operational Functions



PRG ID	INPUT			OUTPUT		
	FR	PCN	FILE	FUNCTION	FILE	PCN TO
33	HR	331	CQD33FORU RQD10F01U	PIC request by site code	List all reels except scratch for site code	PQD33FOLU 332 HR
34	HR	341	CQD34FORU RDQ10F01U	PIC request by site code	List all reels for site code	PQD34FOLU 342 HR
*35	HR	351	CQD35FORU RQD10F01U	PIC request Transaction cards specify type of data and format	List requested data in designated format	PQD35FOLU 352 HR
40	HR	401	CQD40FORU RQD10F02U	PIC request by site code	List all skeletons for site code	PQD40FOLU 402 HR
45	HR	451	CQD45FORU RQD10F03U	PIC request by site code	List all monitors for site code	PQD45FOLU 452 HR
50	HR	501	CQD50FORU RQD10F01U	PIC request by site code	List reels scheduled for shipping off-site for site code	PQD50FOLU 502 HR
51	HR	511	CQD51FORU RQD10F01U	PIC request by site code	List reels stored off-site for site code	PQD51FOLU 512 HR
52	HR	521	CQD52FORU RQD10F01U	PIC request by site code	List reels with 999 retention for site code	PQD52FOLU 522 HR
53	HR	531	CQD53FORU RQD10F01U	PIC request by site code	List reels needing scratch for site code	PQD53FOLU 532 HR
54	HR	541	CQD54FORU RQD10F01U	PIC request by site code	List reels needing clean and/ or certify for site code	PQD54FOLU 542 HR
55	HR	551	CQD55FORU RQD10F01U	PIC request	List available scratch reels	PQD55FOLU 552 HR

FIGURE 2-01. TLM Subsystem Operational Functions (continued)

PRG ID	INPUT			OUTPUT		
	FR	PCN	FILE	FUNCTION	FILE	PCN TO
60	HR	601	CQD60FORU RQD10FO1U	PIC request by site code and PASSWORD. Transaction cards identifying File IDs and/or reels not to be scratched.	PQD60FOLU RQD10FO1U	602 HR
65	H	651	CQD65FORU RQD10FO1U RQD10FO2U	PIC request by site code and PASSWORD. Transaction cards identifying File IDs and/or File Controls to be changed/ or changed on individual reel records.	PQD65FOLU RQD10FO1U RQD10FO2U	652 HR
70	H		RQD10FO1U RQD10FO2U RQD10FO3U	Checks and lists all acted upon data records and all automatic update errors	PQD70FOLU RQD10FO1U RQD10FO2U RQD10FO3U	702 H
80	H	801	CQD80FORU RQD10FO1U RQD10FO2U RQD10FO3U	Transaction cards for actions against data base files	PQD80FOLU RQD10FO1U RQD10FO2U RQD10FO3U	802 H

Figure 2-01. TLM Subsystem Operational Functions (continued)

PRG ID	INPUT			OUTPUT		
	PR	PCN	FILE	FUNCTION	FILE	PCN TO
90	M	901	CQD90FORU FQD96FOTU RQD10FOLU	Forecast, Schedule or Package Request Cards	PQD90FOLU PQD90FOTU FQD90FOTU	M M M
91	M	911	CQD91FORU FQD90FOTU FQD96FOTU	Transaction Cards and Packages	PQD91FOLU PQD91FOLU PQD91FOLU PQD91FOLU FQD91FOTU	M H M M M
93	M	931	CQD93FORU FQD91FOTU RQD10FOTU	Tape Label Request	PQD93FOLU PQD93FOTU	M M
94	M		FQD96FOTU	List request errors Partial printing of AF Form 606	PQD93FOLU PQD93FOTU	M M
95	M	951	CQD95FORU FQD96FOTU	Management Report Requests	PQD94FOLU	M
96	M	961	CQD96FORU FQD96FOTU	Transaction Cards and Packages	PQD95FOLU PQD95FOLU PQD95FOLU PQD96FOLU FQD96FOTU	M M M M M

FIGURE 2-02. WLM Subsystem Operational Functions

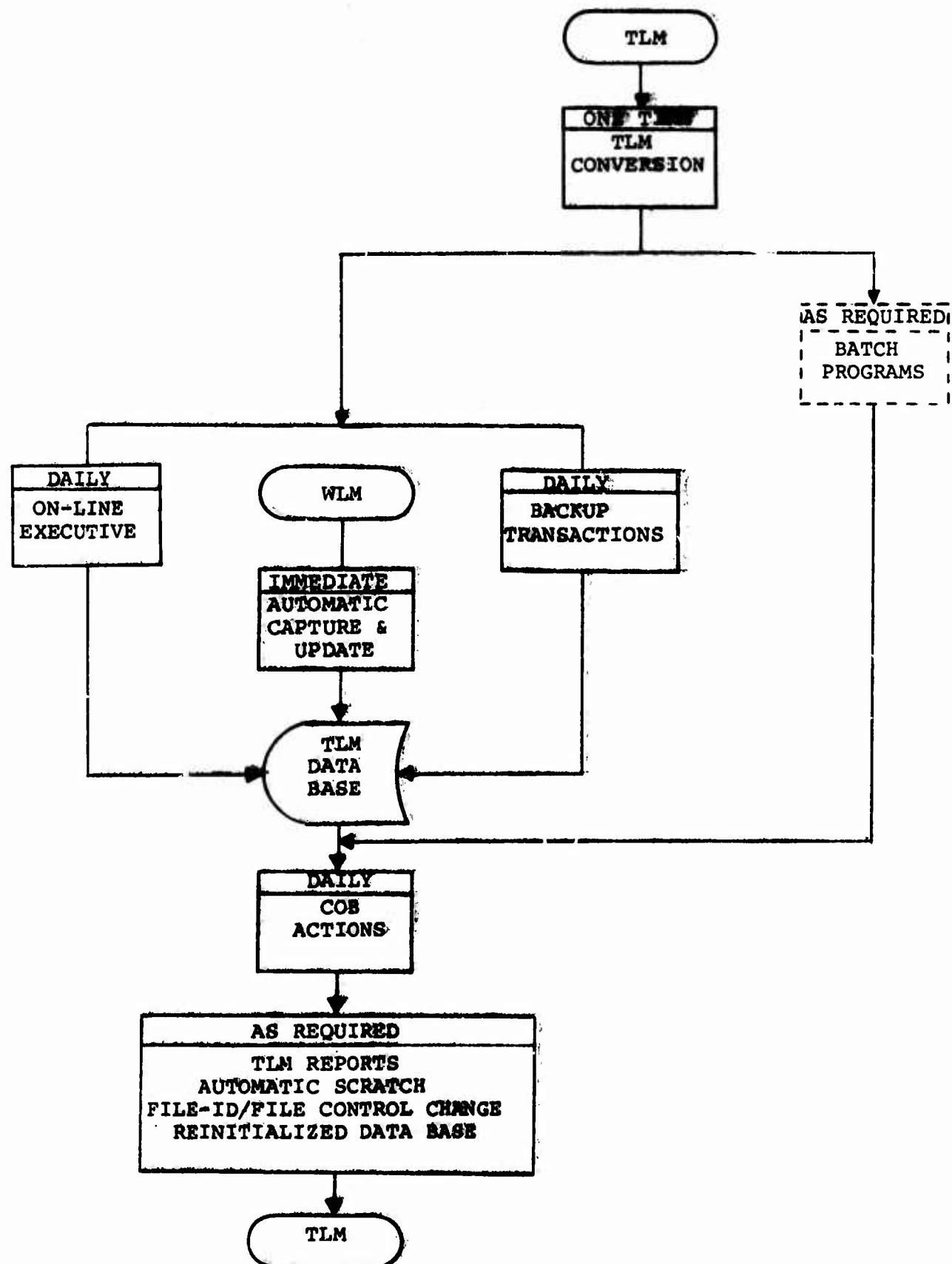


FIGURE 2-03. TLM Subsystem Structure

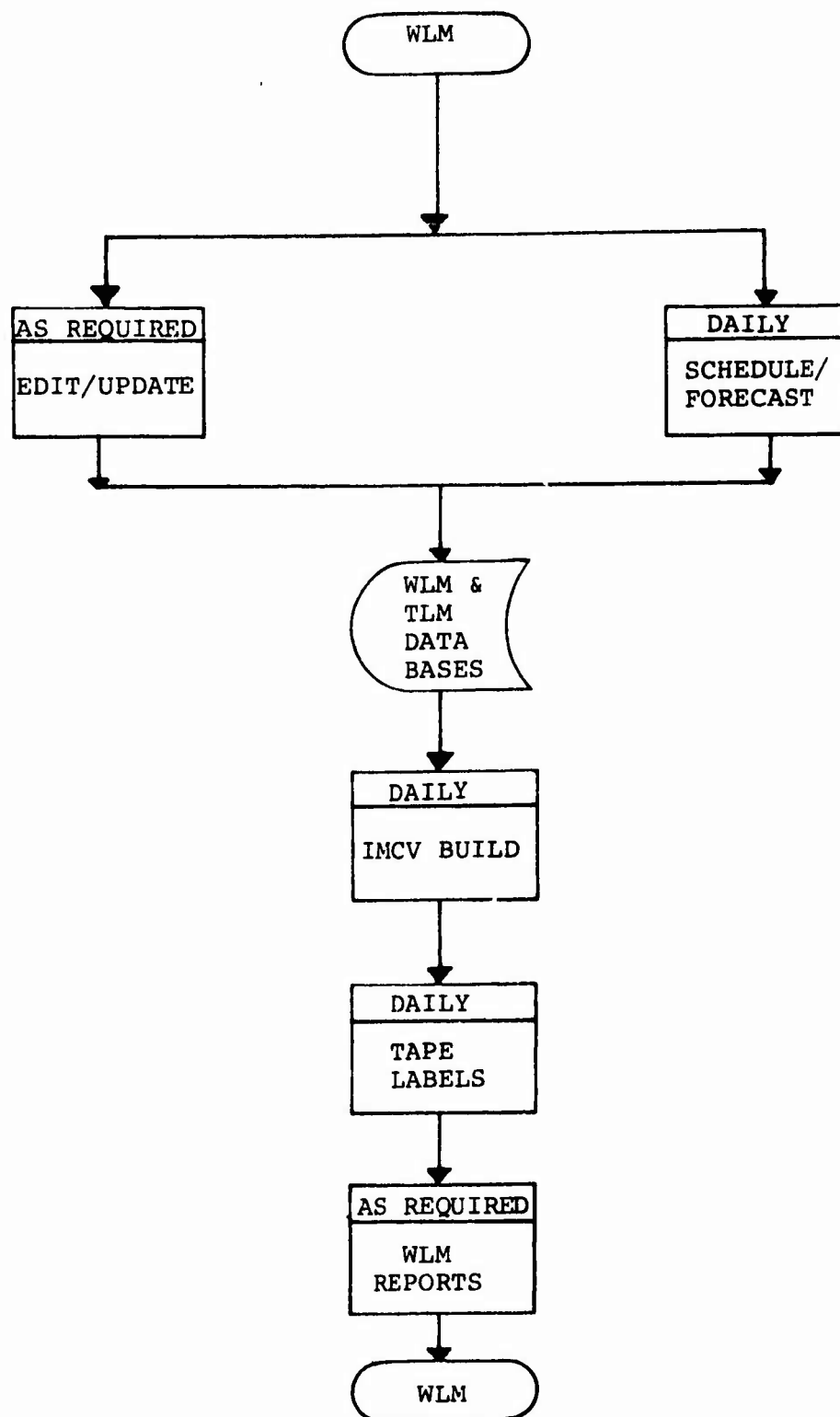


FIGURE 2-04. WLM Subsystem Organization

2-30

AFM 171-602 Vol II (C2)

17 April 1981

PROGRAM	PROGRAM NAME	PIC PCN	INPUT FILE	DATA BASE FILE	OUTPUT FILE
QDnnFO		SQL05-nn1	CQDnnFORU	RQD10F0nU	PQDnnFOLU
30	Master/Reel	30	30	1	30
31	Master/File-ID	31	31	1	31
32	Master/Monitor	32	32	1	32
33	Master/File-CTL	33	33	1	33
34	Master/Dump	34	34	1	34
* 35	TLM Inquiry	35	35	1	35
40	Skeleton	40	40	2	40
45	Monitor	45	45	3	45
50	Off-site Shipping	50	50	1	50
51	Off-site Storage	51	51	1	51
52	999 Retention Tapes	52	52	1	52
53	Scratch Candidate	53	53	1	53
54	Clean/Certify Candidate	54	54	1	54
55	Available Scratch	55	55	1	55

FIGURE 2-05. TLM Reports Programs and Files

OUTPUT FILE	REPORT PCN	REPORT LIST TITLE	INFORMATION
PQDnnFOLU	SQL05-nn2	USAF Tape Library	
30	30	Master/Reel	All reels
31	31	Master/File-ID	All reels except scratch
32	32	Master/Monitor	All reels except scratch
33	33	Master/File-CTL	All reels except scratch
34	34	Master/Dump	All reels
* 35	35	TLM Inquiry	As Requested
40	40	Skeleton	All Skeletons
45	45	Monitor	All Monitors
50	50	Off-site Shipping	Reels scheduled for shipping off-site
51	51	Off-site Storage	Reels stored off-site
52	52	999 Retention Tapes	Reels with 999 retention
53	53	Scratch Candidate	Reels needing scratch
54	54	Clean/Certify Candidate	Reels needing clean and/or certify
55	55	Available Scratch Tapes	Available scratch reels

FIGURE 2-06. TLM Reports

## SELECT TABLE

FIELD ID	FIELD TITLE	FIELD LENGTH	MAX CHAR IN HEADER	SAMPLE HEADERS
1	Reel Number	5	6	"REEL"
2	File ID	12	6	"FILE-ID"
3	File Control	5	2	"FI-CTL"
4	Site Code	1	2	"SC"
5	System Monitor	3	3	"MON"
6	Security	1	2	"SE"
7	Date Created	6	6	"CRETD"
8	Time Created	4	5	"TIME"
9	As Of Date	6	6	"AS OF"
10	Sequence	2	3	"SEQ"
11	Retention Remaining	5	5	"RET"
12	Off Site	1	2	"OS"
13	Location	10	10	"LOCATION"
14	Date Shipped	6	6	"SHIPD"
15	Date Returned	6	6	"RETND"
16	Back-up Indicator	6	6	"BACKUP"
17	Date Cleaned	6	6	"CLEAND"
18	Number Cleaned	2	3	"NUM"
19	Date Certified	6	6	"CERTD"
20	Number Certified	2	3	"NUM"
21	LIB OPT-6	6	6	"OPT-6"

\* FIGURE 2-07. TLM Inquiry Select Table

## TITLE CARD

1 2 3 4  
TITLE/THIS IS THE REPORT TITLE//

1. First Entry, in card columns 1-5, is "TITLE".
2. Second entry is a slant bar "/" preceeding the title.
3. Third entry is the title desired. It will automatically be centered on the report. Maximum number of characters allowed is 64.
4. Immediately following the title, add two slant bars "/" to denote the end of the entry.

\* FIGURE 2-08. Title Card Format



## PARAMETER CARD

1 2 3 4 5 6 7  
PARAMS/13, LOCATION, 10, 1/3, FI-CTL, 10, 2/5, MON, 5, //

1. Card Type, Column 1-6, must be "PARAMS".
2. A slant bar "/" must precede each parameter.
3. First entry in each parameter is the field identification number (see Select Table, figure 2-07, for available fields).
4. Second entry is the Field Header desired. Sample entries are shown in the Select Table, figure 2-07, but any entry within the maximum character count may be used.
5. Third entry is the number of spaces desired after this field on the report.
6. Fourth entry is the sorting order of the associated field. Entry is limited to from 1 to 5 and sort will be in the following order:
  - 1 - Major Sort Key
  - 2 - Second Sort Key
  - 3 - Third Sort Key
  - 4 - Fourth Sort Key
  - 5 - Fifth Sort Key

NOTE: Use only as many as desired for the particular report. It is not necessary to use all 5.

7. The last entry on each card is a double slant bar "//".

NOTE: Separate fields within each parameter entry with a comma. If the sort key is not desired, omit it, but leave the comma behind the spacing entry (e.g., /3, FI-CTL, 10, /).

```

1      2 3      4
SELECT/2=C/5=100/7=810205//

```

1. First entry, in card columns 1-6, must be "SELECT".
2. Each select entry must be preceeded by a slant bar "/".
3. Select Entries:
  - a. First entry is the Field ID number (see figure 2-07 for a list of Field ID numbers).
  - b. Second entry is "=".
  - c. Third entry is used to specify the records desired for inclusion in the report. The characters shown will be matched against the appropriate field. For example, the entry in the sample card above would cause all records with a "C" in the first position of the File ID (Field # 2), a "100" in the Monitor field (Field # 5), and "810205" in the Date Created field (Field # 7), to be selected and included in the report.
  - d. At least one entry must be made and as many as five may be made on the select card.
  - e. Select entries must be made with the field ID numbers in left to right, low to high order. If an entry such as "/5=100/2=C//" was made, the "2=C" entry will be ignored because the 2-field ID is lower numerically than the 5-field ID.
4. Last entry is the double slant bar "//".
5. Each field used in the selection criteria must be defined in the parameter card or it will be ignored.

\* FIGURE 2-10. Select Card Format

### SECTION 3. STAFF FUNCTIONS RELATED TO TECHNICAL OPERATIONS (BATCH)

#### 3.1 INITIATION PROCEDURES.

##### 3.1.1 TLM SUBSYSTEM.

- a. For TLM Conversion - reference AFM 171-602, volumes I and XI.
- b. For On-Line Executive - reference section 4.
- c. For batch-initiated operations - reference AFM 171-602, volume I.

##### 3.1.2 WLM SUBSYSTEM.

For batch-initiated operations - reference AFM 171-602, volume I.

#### 3.2 STAFF INPUT REQUIREMENTS. For the following referenced figures, these rules apply:

- a. The prefix "SQ105-" is omitted from the PCNs.
- b. The symbols, H=Host site librarian, R=Remote site librarian and M=Monitor are used for input origin.
- c. TLM Subsystem Batch Input Requirements. See figure 3-01.
- d. WLM Subsystem Batch Input Requirements. See figure 3-02.

##### 3.2.1 INPUT FORMATS.

###### 3.2.1.1 TLM SUBSYSTEM. Also reference attachment 1 for element descriptions.

3.2.1.1.1 PRODUCT IDENTITY CARD (PIC). In addition to specifying the PCN-ID for the TLM Subsystem, individual programs expect to find user supplied data in cc 20-80 as described below.

ELEMENT	POSITION	ENTRY
Card ID	1-3	"PCN"
PCN-ID	4-11	
Filler	12-19	Spaces

- a. Print Programs. To request a report for all sites, enter an "X" in the site code field.

ELEMENT	POSITION	ENTRY
Site Code	20	
Filler	21-80	Space

b. Monitor. A selective list of up to 15 monitors may be produced.

ELEMENT	POSITION	ENTRY
Site Code	20	
Filler	21	
Monitor Number,	22-24	
Followed by a space (a space must be put between each monitor), occurs 15 times		
Filler	77	
Monitor Number	78-80	

\* c. Automatic Scratch. To request listings/scratching of reel number records for all sites enter "X" in the site code field and place the host site password in the password field.

ELEMENT	POSITION	ENTRY
Site Code	20	
Password	25-36	
* Certify	40-46	"CERTIFY" (For degaussed tapes only)

d. File-ID/File Control Change. To change the File-ID/File Control of skeletons and/or reel number records of all sites enter "X" in the site code field and place the host site password in the password field.

ELEMENT	POSITION	ENTRY
Site Code	20	
Password	25-36	

### 3.2.1.1.2 CONTROL CARDS.

a. Factor Card.

ELEMENT	POSITION	ENTRY
* Filler	1-2	Spaces
Card ID	3-6	"FACT"
Clean Factor	7-9	000-999
Certify Factor	10-12	000-999
Host Site	13	
Inhibit Automatic Update Switch	14	Y or N
SYSOUT Line Limits	15-16	01-99
Processor Time limits	17-18	01-99

Off-Site Shipping 19-28  
 Location  
 Filler 29-80 Spaces

(1) This card must be the first of the Control Cards since it establishes the control elements.

(2) The Clean and Certify Factors are established for computing entries on TLM Reports.

(3) The Host Site is used to identify which of the Site Card sets belong to the host site librarian.

(4) The Inhibit Automatic Update Switch is set on or off by QD05F0 according to DPI preference.

(5) The SYSOUT Line Limits are inserted into the JCL of each spawned TLM Reports program. The default is 05K.

(6) The Processor Time Limits are inserted into the JCL of each spawned TLM Report program. The default is .05.

(7) The off-site shipping location is used to specify the location of tapes shipped via the mass function. The default is "VAULT".

b. Reel Card.

ELEMENT	POSITION	ENTRY
* Filler	1-2	Spaces
Card ID	3-6	"REEL"
Beginning Reel of Range	7-11	A-Z or 0-9 plus 0000-9999
Ending Reel of Range	12-16	A-Z or 0-9 plus 0000-9999
Filler	17-80	Spaces

(1) Up to 40 cards may be input to designate the ranges of reel numbers.

(2) Each range should be higher than the previous range and not overlap beginning or ending numbers.

(3) Do not allow a reel range to cross the number n0000. Have one range stop at n9999 and the next begin at (n+1)0000.

(4) Existing reel ranges may be decreased but not increased.

c. Site Card (1).

ELEMENT	POSITION	ENTRY
* Filler	1-2	Spaces
Card ID	3-6	"SITE"
Site Code	7	
Site Heading	8-12	Free form
USERID	13-24	Legal user
Password	25-36	Legal user
Primary VIP	37-38	Librarian
Alternate VIP	39-40	Librarian
Destination-ID	41-42	Remote Site Printer
Filler	43-80	Spaces

## d. Site Card (2).

ELEMENT	POSITION	ENTRY
* Filler	1-2	Spaces
Card ID	3-6	"SITE"
Site Code	7	
Constant	8-12	"IDENT"
Filler	13-15	Spaces
IDENT Image	16-80	Col 16-80 of IDENT

(1) These statements apply to Site Cards 1 and 2.

(2) Each set of site cards contains identifying information about the host site or one of the remote sites. Each set must have two cards.

\* (3) The Site Code is used for identifying the host and remote sites.

(4) The USERID, Password, Primary and Alternate VIPs are all used in verifying user access to the TLM data base.

(5) If no Alternate VIP is available, use the same entry as the Primary VIP.

(6) The Destination-ID indicates the site printer for distribution of spawned reports.

(7) The Site Heading is used in the headings of the TLM Reports lists and the 7705 VIP forms.

(8) The IDENT Image is used in spawning TLM Reports. Column 70 will be overlaid with the Site Code during this operation.

(9) A Site Card set must be input (all elements filled in) for the host site.

## e. File Action Card.

ELEMENT	POSITION	ENTRY
File Name	1-8	"SKELETON" or "MONITOR"
Filler	9-80	Spaces

(1) One File Name per card.

(2) It is used to designate which QD05F0 files are to be initialized or reinitialized during the execution of QD05F0.

\* f. PARAMETER CARD.

ELEMENT	POSITION	ENTRY
Card Type	1-6	"PARAMS"
Major Field Delimiter	7	"/"
Variables	8-80	See Note

\* g. SELECT CARD.

ELEMENT	POSITION	ENTRY
Card Type	1-6	"SELECT"
Major Field Delimiter	7	"/"
Variables	8-80	See Note

\* h. TITLE CARD.

ELEMENT	POSITION	ENTRY
Card Type	1-5	"TITLE"
Major Field Delimiter	6	"/"
Title	7-70	A/N
End of Title	8-72	"//"

NOTE 1: All variable elements are described in figures 2-08, 2-09, and 2-10, as applicable.

NOTE 2: Card types need not be placed in any certain order; however, the order of the PARAMS card entries determine the order of the report headers and fields.

### 3.2.1.1.3 TRANSACTION CARDS.

a. Automatic Scratch File-ID Card.

ELEMENT	POSITION	ENTRY
Card Type	1	F
File-ID	2-13	
File Control	14-18	
FILLER	19-80	Spaces



(1) All data fields must have entries.

(2) A separate card must be input for each File-ID/File Control that is not to be scratched.

b. Automatic Scratch Reel Card.

ELEMENT	POSITION	ENTRY
Card Type	1	R
Reel Number	2-6	
Filler	7-80	Spaces

(1) All data fields must have entries.

(2) A separate card must be input for each reel number record that is not to be scratched.

\* c. Reel (R) and Exclude (X) Change File-ID/File Control.

ELEMENT	POSITION	ENTRY
Type	1	"R" or "X"
Old File-ID	2-13	
Old File Control	14-18	
Site Code	19	
New File-ID	20-31	
New File Control	32-36	
Reel Number(s)	37-71	(up to 7 reel numbers)
Continuation	72	"C" or space
Filler	73-80	Spaces

(1) All data fields up to new file control must have entries.

(2) An "R" type replaces the current File-ID/File Control with a new File-ID/File Control on all reels with the old File-ID/File Control, unless specific reels are listed in the reel number(s) field.

(3) If all of the reel number records containing the old File-ID/File Control are to be changed, then the reel number and continuation field must be left blank. However, if only specific reel number records are to be modified, the reel numbers must be specified in the reel number field. Up to seven reel numbers can be specified on each card with a maximum of 10 cards per File-ID/File Control per execution of QD65FO. If more than one card containing reel numbers for a particular File-ID/File Control is to be submitted, each card must contain the same information up to and including the new File-ID/File Control field. Additionally, each card that is to be followed by another card changing the same File-ID/File Control to the same new File-ID/File Control must contain a "C" in the continuation field.

\* (4) An "X" type saves the current File-ID/File Control for the specified reels listed in the reel number(s) field and replaces all

other reels of the current File-ID/File Control with the new File-ID/File Control.

d. Delete (D) and New (N) Change Cards.

ELEMENT	POSITION	ENTRY
Type	1	"D" or "N"
Old File-ID	2-13	
Old File Control	14-18	
Site Code	19	
New File-ID	20-31	
New File Control	32-36	
Filler	37-80	Spaces

(1) All data fields must have entries.

(2) A separate card is used for each function; i.e., Delete (D) File-ID/File Control, add New (N) File-ID/File Control.

(3) A "D" type deletes the old File-ID/File Control from the skeleton file and replaces the deleted File-ID/File Control in all matching reel number records on the master file with the new File-ID/File Control.

(4) An "N" type replaces the old File-ID/File Control with a new File-ID/File Control in the skeleton file. All master file reel number records whose File-ID/File Control match the old are changed to the new File-ID/File Control.

\* NOTE: If multiple type cards are used, they are sorted by File-ID/File Control and type, in that order.

e. Master Update Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"MAST"
Function	5-8	"UPD "
Reel Number	9-13	
File-ID	14-25	
File Control	26-30	
Date Created	31-36	YYMMDD
Time Created	37-40	HHMM
Sequence	41-42	01-99
Remarks	43-64	
Filler	65-80	Spaces

(1) All data fields must have entries with the exception of Remarks. If the Remarks field is not equal to spaces, this value will be used to update in lieu of the Remarks field in the appropriate Skeleton record.

(2) This reel information is used along with additional information from the Skeleton file to update the TL-Master file with data on a new output tape reel.

(3) The Reel Number must be within the ranges specified in the TLM data base control elements; and the File-ID on the Master record, before updating, must be "SCRATCH" and on-site.

(4) The File-ID and File Control are used to find a match in the Skeleton File.

(5) For multireel files, each subsequent reel of the set must have a greater Time Created than the previous reel.

f. Master Change 1 Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"MAST"
Function	5-8	"CHG1"
Reel Number	9-13	
File-ID	14-25	
File Control	26-30	
Site Code	31	
System Monitor	32-34	001-999
Security	35	
Date Created	36-41	YYMMDD
Time Created	42-45	HHMM
As Of Date	46-51	YYMMDD
Sequence	52-53	01-99
Remarks	54-75	Free form
Filler	76-80	Spaces

g. Master Change 2 Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"MAST"
Function	5-8	"CHG2"
Reel Number	9-13	
Retention Remaining	14-18	
Off-site Storage	19	Y or N or S
Location	20-29	Free form
Date Shipped	30-35	YYMMDD
Return Date	36-41	YYMMDD
Backup	42-47	
Date Cleaned	48-53	YYMMDD
Number of Cleans	54-55	01-99
Date Certified	56-61	YYMMDD
Number of Certifies	62-63	01-99
Library Option 6	64-69	Free form
Filler	70-80	Spaces

- (1) These statements apply to Master Change 1 and 2 cards.
- (2) The Reel Number must be within the ranges specified in the TLM data base control elements.
- (3) The corresponding data fields of the cards overlay the data fields in the record.
- (4) All data fields except Reel Number, File-ID and File Control may be changed.
- (5) The cards may be input together or separately.
- (6) To initiate automatic off-site shipment and return, enter "S" in the Off-site Storage field (see paragraph 4.4.3.1.a).
- (7) Only those fields that are to be changed are required to have entries with the exception of the Card ID, Function, Reel Number, File-ID and File Control fields which must have entries. All other fields may be space filled and will not be changed on the reel number record. To change the remarks, backup and/or library option 6 fields to spaces,

asterisks must be placed in the applicable field(s).

**WARNING:** When changing one reel of a multireel file, insure that the integrity of the reel set is not destroyed. File-ID, File Control, Date Created, Time Created and Sequence are all used in the sorting sequence of the QD System.

#### h. Master Mass Functions Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"MAST"
Function	5-8	"SCR " Scratch or "CLN" Clean or "SCLN" Scratch/Clean or "CER" Certify or "CCLN" Certify/Clean or "LSTS" Scratch Last or "LSTC" Certify Last or "OFF" Off-site shipping or "ONN" Return on-site
Filler	9	
Reel Number	10-14	
	[occurs 12 times]	
Filler	75	Space
Reel Number	76-80	

(1) A separate card is used for each function or combination of functions with up to 12 Reel Numbers on each card.

(2) The Reel Numbers indicated must be within the ranges specified in the TLM data base control elements.

(3) The reel to be scratched, cleaned or certified must be on site.

(4) For the scratched reel - the File-ID is set to "SCRATCH", the Date Created is set to the system date, the Off-site is set to "N", and the Location is set to "LIBRARY". The File Control, Site Code, System Monitor, Time Created, As Of Date, Sequence, Retention Remaining, Backup and Remarks are set to zeros. All other data fields remain unchanged.

(5) For the cleaned reel - the Date Cleaned is set to the system and the Number of Cleans is bumped by one. All other data fields remain the same.

14 November 1980

(5) For the certified reel - the File-ID is set to "SCRATCH", the Security is set to "U", the Date Created is set to the system date, the Off-site is set to "N", the Location is set to "LIBRARY", the Date Certified is set to the system date and the Number of Certifies is bumped by one. The File Control, Site Code, System Monitor, Time Created, As Of Date, Sequence, Retention Remaining and Backup are set to zeros. All other data fields remain unchanged.

## i. Skeleton Add Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"SKEL"
Function	5-8	"ADD "
File-ID	9-20	
File Control	21-25	
Site Code	26	
System Monitor	27-29	001-999
Security	30	
Retention	31-34	
Backup	35-40	
Library Option 3	41-43	Free form
Remarks	44-65	Free form
Filler	66-80	Spaces

(1) All data fields must have entries except Backup, Library Option 3 and Remarks.

(2) The record is added to the file if the growth area will permit and there is no existing record with the same File-ID and File Control.

## j. Skeleton Change Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"SKEL"
Function	5-8	"CHG "
File-ID	9-20	
File Control	21-25	
Site Code	26	
System Monitor	27-29	001-999
Security	30	
Retention	31-34	
Backup	35-40	
Library Option 3	41-43	Free form
Remarks	44-65	Free form
Filler	66-80	Spaces

(1) File-ID and File Control are used to search the Skeleton file for a match.

(2) The corresponding data fields (including spaces) of the card will overlay the data fields in the record.

(3) All the data fields except File-ID and File Control may be changed.

(4) The COB action will modify selective data elements in all reel number records with the same File-ID and File Control to reflect the skeleton changes.

k. Skeleton Remove Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"SKEL"
Function	5-8	"REM "
File-ID	9-20	
File Control	21-25	
Filler	26-80	Spaces

(1) The File-ID and File Control are used to search the Skeleton file for a match.

(2) The record is flagged and physically removed during the next execution of COB Actions.

(3) The COB action will also SCRATCH all reel number records with the same File-ID and File Control.

l. Monitor Add 1 Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"MONI"
Function	5-8	"ADD1"
Site Code	9	
System Monitor	10-12	001-000
Office Symbol	13-17	Free form
Primary Contact	18-32	Free form
Primary Phone	33-39	Free form
Alternate Phone	40-46	Free form
Alternate Contact	47-61	Free form
Address	62-71	Free form
Library Option 4	72-75	Free form
Filler	76-80	Spaces

m. Monitor Add 2 Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"MONI"
Function	5-8	"ADD2"
Site Code	9	
System Monitor	10-12	001-999
Remarks	13-68	Free form
Filler	69-80	Spaces

- (1) These statements apply to Monitor Add 1 and 2 cards.
- (2) Site Code and System Monitor are the only required entries.
- (3) The record is added to the file if the growth area will permit, and there is no existing record with the same System Monitor.
- (4) If only one of the two Monitor Add cards required to complete the record is provided, the partial entry will be removed by the next COB Actions.

n. Monitor Change 1 Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"MONI"
Function	5-8	"CHG1"
Site Code	9	
System Monitor	10-12	001-999
Office Symbol	13-17	Free form
Primary Contact	18-32	Free form
Primary Phone	33-39	Free form
Alternate Phone	40-46	Free form
Alternate Contact	47-61	Free form
Address	62-71	Free form
Library Option 4	72-75	Free form
Filler	76-80	Spaces

o. Monitor Change 2 Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"MONI"
Function	5-8	"CHG2"
Site Code	9	
System Monitor	10-12	001-999
Remarks	13-68	Free form
Filler	69-80	Spaces

- (1) These statements apply to Monitor Change 1 and 2 cards.
- (2) The Site Code and System Monitor are used to search the Monitor file for a match.
- (3) The corresponding data fields (including spaces) of the cards will overlay the data fields in the record.
- (4) The cards may be input together or separately.



## p. Monitor Remove Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"MONI"
Function	5-8	"REM "
Site Code	9	
System Monitor	10-12	001-999
Filler	13-80	Spaces

(1) The Site Code and the System Monitor are used to search the Monitor file for a match.

(2) The record is flagged and physically removed during the next execution of CJB Actions.

## 3.2.1.1.4 DATA BASE FILES.

## a. TL-Master File.

(1) Control Elements. Most of the control elements of the TLM data base are described in paragraph 3.2.1.1.2. Additional control elements, such as, TLM control gates, data base file sizes and last-date-accessed are established and controlled by the TLM Subsystem programs.

(2) Master Record. All of the fields are described in paragraphs 3.2.1.1.3.a through d.

ELEMENT	POSITION
Reel Number	1-5
File-ID	6-17
File Control	18-22
Site Code	23
System Monitor	24-26
Security	27
Date Created	28-33
Time Created	34-37
As Of Date	38-43
Sequence	44-45
Retention Remaining	46-50
Off-site Storage	51
Location	52-61
Date Shipped	62-67
Return Date	68-73
Backup	74-79
Date Cleaned	80-85
Number of Cleans	86-87
Date Certified	88-93
Number of Certifies	94-95
Library Option 6	96-101
Remarks	102-123
Last Actions	124-126
Number of Actions	127-128

(3) Error Area. An area is reserved at the end of the file for automatic capture and updates which were in error. This area is printed and cleared during the execution of COB Actions.

b. Skeleton File.

(1) Skeleton Record. All of the fields are described in paragraphs 3.2.1.1.3.e through g.

ELEMENT	POSITION
File-ID	1-12
File Control	13-17
Site Code	18
System Monitor	19-21
Security	22
Retention	23-26
Backup	27-32
Library Option 3	33-35
Remarks	36-57
Last Actions	58-60
Number of Actions	61-62
Change/Remove Flag	63-64

(2) An area is reserved at the end of the file for growth.

c. Monitor File.

(1) Monitor Record. All of the fields are described in paragraphs 3.2.1.1.3.h through o.

ELEMENT	POSITION
Site Code	1
System Monitor	2-4
Office Symbol	5-9
Primary Contact	10-24
Primary Phone	25-31
Alternate Phone	32-38
Alternate Contact	39-53
Location	54-63
Library Option 4	64-67
Remarks	68-123
Last Actions	124-126
Number of Actions	127-128

(2) An area is reserved at the end of the file for growth.

3.2.1.1.5 OTHER FILES. The J\* System file is explained in the J\* Technical Manual, System Tables (GCOS).

3.2.1.2 WLM SUBSYSTEM. Also reference attachment 2 for element descriptions.

3.2.1.2.1 PRODUCT IDENTITY CARD (PIC).

ELEMENT	POSITION	ENTRY
Card ID	1-3	"PCN"
PCN-ID	4-17	
Filler	18-80	Spaces

a. Each individual PIC identifies that card input to the programs of the subsystem.

b. No other data is carried in the PIC for the WLM Subsystem.

3.2.1.2.2 REQUEST CARDS.

a. Forecast.

ELEMENT	POSITION	ENTRY
Card ID	1-5	"#FORE"
Begin Month	6-7	01-12
Begin Day	8-9	01-31
Filler	10	Space
End Month	11-12	01-12
End Day	13-14	01-31
Filler	15-80	Spaces

(1) This request designates the period of time for which Packages of the JCL-Master file may be scheduled.

(2) Each #SCHD Card in a Package covers a different month.

(3) The End Month and Day must be logically later in time than the Begin Month and Day.

(4) The forecast period may cross over the year end, but it must not exceed 12 months in length.

b. Schedule.

ELEMENT	POSITION	ENTRY
Card ID	1-5	"#SCHD"
Month	6-7	01-12
Day	8-9	01-31
Filler	10	Space
Security	11	
Filler	12-80	Spaces

(1) This request designates a day on which a scheduled Package of the JCL-Master file is selected to run.

(2) Each #SCHD Card in a Package covers a different month.

(3) The Day of this request is matched against the mask of the #SCHD Card to see if the Package should be selected for that day.

(4) Optionally, the Security designated on this request may also be used as part of the Package selection criterion. Column 46 of the Package IDENT record is used for this check.

c. Package.

ELEMENT	POSITION	ENTRY
Package Number	1-5	00001-99999
Filler	6-80	Spaces

(1) This request designates a Package of the JCL-Master file to be selected.

(2) If Package Requests are combined with a Schedule Request, the Package Requests are the first selection criterion and no match is attempted for Day or Security on the designated Packages.

(3) If Package Requests are used alone the current computer date is shown on all output listings.

d. For-Date.

ELEMENT	POSITION	ENTRY
Card ID	1-5	"#DATE"
Month	6-7	01-12
Day	8-9	01-31
Filler	10-80	Spaces

(1) Used with Package Request Cards only.

(2) This Month and Day is shown on all output listings instead of the current computer date.

e. Tape Label.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"#LAB"
File-ID	5-16	
File-CTL	17-21	
Number of Labels	22-23	01-99
SNUMB	24-28	
Filler	29-80	Spaces

(1) The File-ID and File Control are used to search the Skeleton file for a match and then additional label data is extracted for listing.

(2) The Number of Labels specifies the number of partially completed AF Forms 606 to be listed.

(3) Optionally, the SNUMB may be printed on the tape label.

#### f. Management Reports.

ELEMENT	POSITION	ENTRY
Card ID	1-8	"MGT-RPTS"
Filler	9	Space
PCN Sort	10-13	
Filler	14-19	Spaces
D-Day Sort	20-23	
Filler	24-29	Spaces
OPR Sort	30-31	
Filler	32-80	Spaces

(1) For PCN/RCS Reference information, enter a "1" in one of the columns of PCN Sort element and the listed sequence is:

Col 10 - PCN/RCS  
 Col 11 - SNUMB, PCN/RCS  
 Col 12 - Command Code, PCN/RCS  
 Col 13 - Command Code, SNUMB, PCN/RCS

(2) For D-Day Precedence information, enter a "1" in one of the columns of the D-Day Sort element and the listed sequence is:

Col 20 - Precedence, PCN/RCS  
 Col 21 - Precedence, SNUMB, PCN/RCS  
 Col 22 - Command Code, Precedence, PCN/RCS  
 Col 23 - Command Code, Precedence, SNUMB, PCN/RCS

(3) For OPR Reference information, enter a "1" in one of the columns of the OPR Sort element and the listed sequence is:

Col 30 - OPR, Command Code  
 Col 31 - Command Code, OPR

3.2.1.2.3 PACKAGE CARDS. The standard JCL card formats are defined in the Honeywell Control Cards Reference Manual. The JCL deck set-up instructions are contained in the appropriate AFM 171-XXX manuals. These formats should be followed except for the cards listed here which have certain variations for use in the QD System. When a new Package is being added, the \$ SNUMB card must have blanks in columns 1 and 73-80.

a. \$ TAPE Card. Since so many system features key on this type of card, it is essential to use the correct format.

14 November 1980

3-18

## (1) Releasable Scratch Tapes:

1	8	16	
\$	TAPE	FC,X1R	
\$	TAPE7	FC,X1RD	
\$	TAPE9	FC,X11RD	

## (2) Output Tapes:

1	8	16	68
\$	TAPE	FC,X1D,,,File-ID	File-CTL
\$	TAPE7	FC,X1DP,,,File-ID	File-CTL
\$	TAPE9	FC,X11DP,,,File-ID	File-CTL

## (3) Input Tapes:

1	8	16	68
\$	TAPE	FC,X1D,,,99999,,File-ID	File-CTL
\$	TAPE7	FC,X1DD,,,99999,,File-ID	File-CTL
\$	TAPE9	FC,X11DD,,,99999,,File-ID	File-CTL

NOTE: The reel number of 99999 is replaced by the current reel number from the TLM data base during the execution of QD90FO.

b. \$ READ Card. This card is used to identify input data decks on PCN SQ105-912. The first card of the input data deck must be a PIC with the same PCN as the one on the \$ READ card.

1	8	16	32
\$	READ	FC	PCN

## c. #SCHD Card.

ELEMENT	POSITION	ENTRY
Mask	1-31	Space
Filler	32	01-12
Month	33-34	"#SCHD"
Card ID	35-39	Spaces
Filler	40-80	

(1) This card indicates the normal recurring batch schedule for any specified month.

(2) Each #SCHD Card in a Package covers a different month.

(3) The Mask indicates the scheduled day by having a "1" in the appropriate column (day of the month).

(4) The #SCHD Cards are optional in Packages input to QD96FO and are not submitted in Packages input to QD91FO.

d. #PCN Card.

ELEMENT	POSITION	ENTRY
Card ID	1-4	"#PCN"
PCN/RCS Indicator	5	
PCN/RCS Number	6-19	
Product Title	20-35	
I/O Indicator	36	I or O
Media	37	
Number of Copies	38-39	01-99
Forms Indicator	40	Y or N
Frequency	41	
Security	42-44	
AUTODIN Indicator	45	Y or N
Minimize Indicator	46	Y or N
D-DAY Indicator	47	
Command Code	48-49	
SNUMB	50-54	
Primary OPR	55-57	001-999
Related OPR	58-60	001-999
Related OPR	61-63	001-999
Related OPR	64-66	001-999
Related OPR	67-69	001-999
Related OPR	70-72	001-999
Filler	73-80	

(1) This card provides management information on the specified PCN/RCS for several optional listings in the WLM Subsystem.

(2) The #PCN Cards are optional in the Packages input to QD96FO and are not submitted in Packages input to QD91FO.

e. #OPR Card.

ELEMENT	POSITION	ENTRY
Card ID	1-5	"#OPR"
Command Code	6-7	
OPR	8-10	001-999
Office Symbol	11-19	
Primary Contact	20-36	
Primary Phone	37-43	
Alternate Phone	44-50	
Alternate Contact	51-70	Free form
or Remarks		
Filler	71-80	Spaces

(1) This card provides management information on the specified OPR for one listing of the WLM Subsystem.

(2) The #OPR Cards are contained in a nonselectable Package at the end of the JCL-Master file.

(3) The #OPR Cards are optional and are input to QD96FO only.

#### 3.2.1.2.4 TRANSACTION CARDS.

##### a. Card-Delete.

ELEMENT	POSITION	ENTRY
Card ID	1	"1"
Filler	2-72	Spaces
Pckg-Seq	73-80	

(1) This card deletes a record from a Package as indicated by the Pckg-Seq.

(2) When this card is input to QD96FO, the deletion is permanent and the Pckg-Seqs are adjusted.

(3) When this card is input to QD91FO, the temporary deletion of a record from the selected Package applies only for that execution of the job.

##### b. Card-Replace.

ELEMENT	POSITION	ENTRY
Card ID	1	"2"
Card Image	2-72	
Pckg-Seq	73-80	

(1) This card replaces an existing record of a Package with a new Card Image as indicated by the Pckg-Seq.

(2) When this card is input to QD96FO, the replacement is permanent.

(3) When this card is input to QD91FO, the temporary replacement of a record from the selected Package applies only for that execution of the job.

##### c. #SCHD-Replace.

ELEMENT	POSITION	ENTRY
Card Image	1-40	
Card ID	41	"2"
Filler	42-72	Spaces
Pckg-Seq	73-80	



(1) This card replaces an existing record of a Package with a new #SCHD Card Image as indicated by the Pckg-Seq.

(2) This card is only input to QD96FO and the replacement is permanent.

d. Card-Add.

ELEMENT	POSITION	ENTRY
Card ID	1	"3"
Card Image	2-72	
Pckg-Seq	73-80	

(1) This card adds a new Card Image to a Package.

(2) Use the Pckg-Seq of the record immediately prior to the sequence position desired for the Card Image to be added. Additional Card Images may be added by using the same Pckg-Seq.

(3) When this card is input to QD96FO, the addition is permanent and the Pckg-Seqs are adjusted.

(4) When this card is input to QD91FO, the temporary addition of a record to the selected Package applies only for that execution of the job.

e. #SCHD-Add.

ELEMENT	POSITION	ENTRY
Card Image	1-40	
Card ID	41	"3"
Filler	42-72	
Pckg-Seq	73-80	

(1) This card adds a new #SCHD Card Image to a Package.

(2) Use the Pckg-Seq of the record immediately prior to the sequential position desired for the #SCHD Card Image to be added. Additional #SCHD Card Images may be added by using the same Pckg-Seq.

(3) This card is only input to QD96FO, and replacement is permanent. The Pckg-Seqs are adjusted.

f. Package-Copy.

ELEMENT	POSITION	ENTRY
Card ID	1	"4"
New SNUMB	2-6	
Filler	7-72	
Pckg-Seq	73-80	

(1) This card initiates the copying of a Package from the JCL-Master file by indicating the Pckg-Seq of the first record of the Package to be copied.

(2) When the card is input to QD96FO, the copied Package is permanently added at the end of the existing Packages (in front of the #OPR Package). The SNUMB and Pckg-Seq are adjusted.

(3) When the card is input to QD91FO, the temporary addition of the copied Package applies only for that execution of the job.

g. Package-Delete.

ELEMENT	POSITION	ENTRY
Card ID	1	"5"
Filler	2-72	
Pckg-Seq	73-80	

(1) This card deletes an existing Package as indicated by the Pckg-Seq of the first record of the Package to be deleted.

(2) When this card is input to QD96FO, the Package is deleted except for the \$ SNUMB record. This is done so that the relative position of the other Packages is not affected and all of the Pckg-Seqs do not have to be changed. The SNUMB is changed to "EMPTY".

(3) When this card is input to QD91FO, the temporary deletion of the selected Package applies only for that run.

h. FILSYS-Replace.

ELEMENT	POSITION	ENTRY
Card ID	1	"6"
Card Image	2-72	
Pckg-Seq	73-80	

(1) This card replaces an existing record of a Package with a new Card Image as indicated by Pckg-Seq.

(2) When this card is input to QD96FO, the replacement is permanent.

(3) When this card is input to QD91FO, the temporary replacement of a record from the selected Package applies only for that execution of the job.

3.2.1.2.5 DATA BASE FILES.

a. JCL-Master File. This file is composed of records described in paragraph 3.2.1.2.3.

(1) Normal Package set-ups will have the \$ SNUMB card, \$ IDENT card, \$ USERID card, #SCHD cards, other JCL cards and the \$ ENDJOB card.

(2) A deleted Package will only have a \$ SNUMB card.

(3) The OPR Package will only have #OPR cards and will be the last Package on the file.

b. TL-Master and Skeleton files are described in paragraph 3.2.1.1.4.

3.2.1.2.6 OTHER FILES. The Selected-JCL and IMCV Build files are composed of records described in paragraph 3.2.1.2.3.

### 3.2.2 COMPOSITION RULES.

3.2.2.1 TLM SUBSYSTEM. See attachment 1.

3.2.2.2 WLM SUBSYSTEM. See attachment 2.

### 3.2.3 INPUT VOCABULARY.

3.2.3.1 TLM SUBSYSTEM. See attachment 1.

3.2.3.2 WLM SUBSYSTEM. See attachment 2.

### 3.2.4 SAMPLE INPUTS.

#### 3.2.4.1 TLM SUBSYSTEM.

a. A sample Product Identity Card and sample Control Cards are illustrated in figure 3-03. All elements are explained in paragraphs 3.2.1.1.1 and 3.2.1.1.2.

b. Sample Transaction Cards are illustrated in figure 3-04. All elements are explained in paragraph 3.2.1.1.3.

c. Sample Data Base Files are illustrated in figures 3-18, 3-19 and 3-20. All elements are explained in paragraph 3.2.1.1.4.

#### 3.2.4.2 WLM SUBSYSTEM.

a. A sample Product Identity Card and sample Request Cards are illustrated in figure 3-05. All elements are explained in paragraphs 3.2.1.2.1 and 3.2.1.2.2.

b. Sample Package Cards are illustrated in figures 3-06 and 3-46. All elements are explained in paragraph 3.2.1.2.3.

c. Sample Transaction Cards are illustrated in figure 3-07. All elements are explained in paragraph 3.2.1.2.4.

d. A sample Package from the JCL-Master file is illustrated in figure 3-46. Paragraph 3.2.1.2.5 provides additional explanations.

d. A sample Package from the JCL-Master file is illustrated in figure 3-46. Paragraph 3.2.1.2.5 provides additional explanations.

3.3 OUTPUT REQUIREMENTS. For the following referenced figures, these rules apply:

- a. The prefix "QD" and suffix "FO" are omitted from the programs.
- b. The prefix "SQ105-" is omitted from the PCNs.
- c. The symbols H=Host site librarian, R=Remote site librarian and M=Monitor are used to designate output users.
- d. TLM Subsystem Batch Output Requirements. See figure 3-08.
- e. WLM Subsystem Batch Output Requirements. See figure 3-09.

#### 3.3.1 OUTPUT FORMATS.

##### 3.3.1.1 TLM SUBSYSTEM.

- a. All elements listed on a report or contained in a file are self-explanatory or more fully explained in attachment 1.
- b. All errors or remarks listed on reports are self-explanatory or more fully explained in attachment 3.

##### 3.3.1.1.1 USAF TAPE LIBRARY LISTS.

- a. Control Record Conversion.
  - (1) See figure 3-10 for the format of PCN SQ105-042.
  - (2) The completed file conversion and record counts are indicated.
- b. Reinitialized Data Base.
  - (1) See figure 3-11 for the format of PCN SQ105-052.
  - (2) All PIC and Control Cards input to QD05FO are listed.
  - (3) All card errors are listed.
  - (4) The completed file initializations or reinitializations and record counts are indicated.
- c. Master/Reel.
  - (1) See figure 3-12 for the format of PCN SQ105-302.
  - (2) All reels, except scratch, in the TL-Master file for the site code requested are listed in the sequence indicated.

(3) All reels in the TL Master File with zero or negative retention remaining are flagged with an "\*" in the left most column.

(4) A summation of the total number of reels in the TL Master File by site code appears at the end of the listing.

d. Master/File-ID.

(1) See figure 3-13 for the format of PCN SQ105-312.

(2) All reels, except scratch, in the TL-Master file for the site code requested are listed in the sequence indicated.

e. Master/Monitor.

(1) See figure 3-14 for the format of PCN SQ105-322.

(2) All reels, except scratch, in the TL Master file for the site code requested are listed in the sequence indicated.

(3) Up to 15 monitor lists may be selected via the PIC card (batch mode only).

(4) With optional switch setting ON1, all reel records that have not been created within the last 7 days are suppressed from the listing (batch mode only).

f. Master/File-CTL.

(1) See figure 3-15 for the format of PCN SQ105-332.

(2) All reels, except scratch, in the TL-Master file for the site code requested are listed in the sequence indicated.

\* g. TLM Inquiry.

(1) See figures 3-17.1 and 3-17.2 for format of PCN SQ105-352.

(2) All control cards and errors are listed.

(3) The report is listed as designed by the user.

h. Master/Dump.

(1) See figure 3-16 for the format of PCN SQ105-342.

(2) All reels in the TL-Master file for the site code requested are listed in the sequence indicated.

i. Skeleton.

(1) See figure 3-17 for the format of PCN SQ105-402.

(2) All Skeletons for the site code requested are listed in the sequence requested by switch setting (batch mode only). With no switches set, the SKELETONs are listed in File-ID sequence. With switch ON1, the SKELETONs are listed in File-ID sequence within system monitor sequence.

j. Monitor.

(1) See figure 3-18 for the format of PCN SQL05-452.

(2) All Monitors for the site code requested are listed in the sequence indicated.

k. Off-site Shipping.

(1) See figure 3-19 for the format of PCN SQL05-502.

(2) All selected reels in the TL-Master file for the site code requested are listed in the sequence indicated.

(3) Selection is computed from the Backup information found in the reel records.

l. Off-site Storage.

(1) See figure 3-20 for the format of PCN SQL05-512.

(2) All selected reels in the TL-Master file for the site code requested are listed in the sequence indicated.

(3) Selection is based on a "Y" being found in the off-site element.

(4) If applicable, the Return Date element is computed from the Backup information in the reel records.

(5) \*\*\* will appear under the DUE NOW header for those reels whose Return Date element is equal to or less than the current date.

m. 999 Retention Tapes.

(1) See figure 3-21 for the format of PCN SQL05-522.

(2) All selected reels in the TL-Master file for the site code requested are listed in the sequence indicated.

(3) Selection is based on "999" being found in the Retention Remaining element.

n. Scratch Candidate.

(1) See figure 3-22 for the format of PCN SQL05-532.

(2) All selected reels in the TL-Master file for the site code requested are listed in the sequence indicated.

(3) Selection is based on those reels whose Retention Remaining element is within 3 days of the current date.

(4) \*\*\* will appear under the DUE NOW header for those reels whose Retention Remaining element is equal to zero or a negative value.

(5) The list provides the authorized users a method of indicating their save or scratch intentions.

(6) A summary of the number of scratch candidates for the next 7 days is also produced. This summary consists of all daily retentions and cyclic retentions of zero or negative.

o. Clean/Certify Candidate.

(1) See figure 3-23 for the format of PCN SQ105-542.

(2) All selected reels in the TL-Master file for the site code requested that require cleaning and/or certifying are listed in the sequence indicated.

(3) For clean candidates, selection is computed from the Date Cleaned element of the reel record, the Clean Factor of the control elements and the current date.

(4) For certify candidates, selection is computed from the Date Certify element of the reel record, the Certify Factor of the control elements and the current date.

p. Available Scratch Tapes.

(1) See figure 3-24 for the format of PCN SQ105-552.

(2) All selected reels in the TL-Master file are listed in reel sequence.

(3) Selection is based on those reels whose File-ID is "SCRATCH".

q. Automatic Scratch.

(1) See figure 3-25 for the format of PCN SQ105-602.

(2) All reel number records in the TL Master with zero or negative retention, depending on option, are listed in reel number sequence.

r. File-ID/File Control Change.

(1) See figure 3-26 for the format of PCN SQ105-652.

3-28

AFM 171-602 Vol II (C2) 17 April 1981

(2) All transaction cards are listed as well as all records changed or removed as a result of these transactions.

s. COB Actions.

(1) See figures 3-27, 3-28, 3-29, 3-30 and 3-31 for the format of PCN SQL05-702.

(2) All records of the TLM data base that have been acted upon, since the last run of QD05FO or QD70FO, are listed.

(3) An image of the current record acted upon along with the action indicators are listed.

(4) Reel number records are selectively modified or scratched depending on the setting of the skeleton change/remove flag. Additionally, all reels flagged by remote librarians as a candidate for scratch will be annotated on this list.

(5) Whether the last three actions upon a record were automatic, on-line or batch is shown. The number of actions, since the last run of QD05FO or QD70FO, is shown.

(6) Automatic capture and update functions that were not completed are listed.

\*

t. Backup Transactions.

(1) See figures 3-33, 3-34 and 3-35 for the format of PCN SQL05-802.

(2) All PIC and Transaction Cards input to QD80FO are listed.

(3) All card errors are listed.

3.3.1.1.2 DATA BASE FILES. See paragraph 3.2.1.1.4.

3.3.1.2 WLM SUBSYSTEM.

a. All elements listed on a report or contained in a file are self-explanatory or more fully explained in attachment 2.

b. All errors or remarks listed on reports are self-explanatory or more fully explained in attachment 4.

3.3.1.2.1 USAF WORKLOAD LISTS.

a. Forecast.

(1) See figure 3-36 for the format of PCN SQL05-902.

(2) For Packages scheduled within the forecast period, the \$ SNUMB, \$ IDENT and \$ USERID cards are listed.



3-28.1

AFM 171-602 Vol II (C2) 17 April 1981

(3) Each scheduled Package is listed only once, but a count of the total number of times scheduled during the period is listed.

AFM 171-602 Vol II 14 November 1980

b. Selected JCL.

- (1) See figure 3-37 for the format of PCN SQ105-903.
- (2) All the records, except #SCHD, for the selected Packages are listed.
- (3) For input tapes, the current reel numbers are listed if available.
- (4) The number of scratch tapes needed is indicated.

c. IMCV Build.

- (1) See figure 3-38 for the format of PCN SQ105-912.
- (2) PCN SQ105-912 lists the \$ SNUMB, \$ IDENT and \$ USERID records of each Package on file FQD91FOTU. It also indicates information about input and output tapes.
- (3) See figure 3-39 for the format of PCN SQ105-913.
- (4) PCN SQ105-913 lists information about the input tapes needed for the Packages on file FQD91FOTU.
- (5) See figure 3-40 for the format of PCN SQ105-914.
- (6) PCN SQ105-914 lists all the inputs needed for the Packages on file FQD91FOTU. To be listed, the inputs must have had a #PCN record in the selected Package.
- (7) See figure 3-41 for the format of PCN SQ105-915.
- (8) PCN SQ105-915 lists all the outputs produced from the Packages on file FQD91FOTU. To be listed, the outputs must have had a #PCN record in the selected Package.

d. Tape Label Error.

- (1) See figure 3-42 for the format of PCN SQ105-932.
- (2) Tape Label Request Cards that have errors are listed.
- (3) Also listed are those label requests for which no match was found in the Skeleton file.

e. Tape Labels.

- (1) See figure 3-43 for the format of PCN SQ105-933.
- (2) Partially completed AF Forms 606 are shown.

f. SNUMB-Package Number X-REF.

(1) See figure 3-44 for the format of PCN SQ105-942.

(2) Matched SNUMB and Package numbers are listed for easy reference.

g. Management Reports.

(1) See figure 3-45 for the format of PCN SQ105-952.

(2) PCN SQ105-952 lists management information for each #PCN record in file FQD96FOTU.

(3) See figure 3-46 for the format of PCN SQ105-953.

(4) PCN SQ105-953 lists management information about D-Day Precedences for each #PCN record in file FQD96FOTU.

(5) See figure 3-47 for the format of PCN SQ105-954.

(6) PCN SQ105-954 lists management information for each #OPR record in file FQD96FOTU.

h. JCL-Master.

(1) See figure 3-48 for the format of PCN SQ105-962.

(2) The Packages that had additions, replacements or deletions are listed.

(3) If desired, the entire file may be listed.

3.3.1.2.2 DATA BASE FILES.

a. JCL-Master. See paragraph 3.2.1.2.3.

b. TL-Master and Skeleton. See paragraph 3.2.1.1.4.

3.3.1.2.3 OTHER FILES. Files FQD90FOTU and FQD91FOTU contain records as described in paragraph 3.2.1.2.3.

3.3.2 SAMPLE OUTPUT.

3.3.2.1 TLM SUBSYSTEM.

a. Sample output lists are illustrated in figures 3-10 through 3-35 and explained in paragraph 3.3.1.1.1.

b. Sample data base files are illustrated in figures 3-16, 3-17 and 3-18 and explained in paragraph 3.2.1.1.4.

3.3.2.2 WLM SUBSYSTEM.

a. Sample output lists are illustrated in figures 3-36 through 3-48 and explained in paragraph 3.3.1.2.1.

b. Sample data base files.

(1) JCL-Master is illustrated in figure 3-48 and explained in paragraph 3.2.1.2.3.

(2) TL-Master and Skeleton are illustrated in figures 3-17 and 3-18 and explained in paragraph 3.2.1.1.4.

### 3.3.3 OUTPUT VOCABULARY.

3.3.3.1 TLM SUBSYSTEM. See attachment 1.

3.3.3.2 WLM SUBSYSTEM. See attachment 2.

### 3.4 UTILILZATION OF SYSTEM OUTPUTS.

3.4.1 TLM SUBSYSTEM. See figure 3-08.

3.4.2 WLM SUBSYSTEM. See figure 3-09.

### 3.5 RECOVERY AND ERROR CORRECTION PROCEDURES.

#### 3.5.1 TLM SUBSYSTEM.

a. For recovery procedures, see the applicable Restart/Recovery Procedures in AFM 171-602, volume I, section 3, paragraphs 3.3 through 3.10.

b. For error correction procedures, see attachment 3.

#### 3.5.2 WLM SUBSYSTEM.

a. For recovery procedures, see the applicable Restart/Recovery Procedures in AFM 171-602, volume I, section 3, paragraphs 3.11 through 3.16.

b. For error correction procedures, see attachment 4.

INPUT CAUSE	INPUT TIME	INPUT ORIGIN	INPUT PROGRAM	INPUT PCN	INPUT MEDIUM	ASSOCIATED INPUT
JCL for TLM Conversion	One time	H, M	QD04FO	041	Control Cards	RQD10F01U
JCL for Reinitialized Data Base	As Needed	H, M	QD05FO	051	Control	RQD10F01U RQD10F02U RQD10F03U
Automatic Capture & Update	As Selected	M	QD20FO		J* System File	RQD10F02U
JCL for Master/Reel	As Needed	H, R	QD30FO	301	PIC	RQD10F01U
JCL for Master/File-ID	As Needed	H, R	QD31FO	311	PIC	RQD10F01U
JCL for Master/Monitor	As Needed	H, R	QD32FO	321	PIC	RQD10F01U
JCL for Master/File-CTL	As Needed	H, R	QD33FO	331	PIC	RQD10F01U
JCL for Master/Dump	As Needed	H, R	QD34FO	341	PIC	RQD10F01U
JCL for TLM Inquiry	As Needed	H, R	QD35FO	351		RQD10F01U
JCL for Skeleton	As Needed	H, R	QD40FO	401	PIC	RQD10F02U
JCL for Monitor	As Needed	H, R	QD45FO	451	PIC	RQD10F03U
JCL for Off-Site Shipping	As Needed	H, R	QD50FO	501	PIC	RQD10F01U
JCL for Off-Site Storage	As Needed	H, R	QD51FO	511	PIC	RQD10F01U

FIGURE 3-01. TLM Subsystem Batch Input Requirements

INPUT CAUSE	INPUT TIME	INPUT ORIGIN	INPUT PROGRAM	INPUT PCN	INPUT MEDIUM	ASSOCIATED INPUT
JCL for 999 Retention Tapes	As Needed	H, R	QD52FO	521	PIC	RQD10F01U
JCL for Scratch Candidate	As Needed	H, R	QD53FO	531	PIC	RQD10F01U
JCL for Clean/Certify Candidate	As Needed	H, R	QD54FO	541	PIC	RQD10F01U
JCL for Scratch Available	As Needed	H, R	QD55FO	551	PIC	RQD10F01U
JCL for Automatic Scratch	As Needed	H, R	QD60FO	601	Control Cards	RQD10F01U
JCL for File-ID/File Control Change	As Needed	H, R	QD65FO	651	Control Cards	RQD10F01U RQD10F02U
JCL for COB Actions	Daily	H	QD70FO			RQD10F01U RQD10F02U RQD10F03U
<del>JCL for Tape Logs</del>	<del>As Needed</del>	<del>H</del>	<del>QD75FO</del>	<del>751</del>	<del>PIC</del>	
JCL for Backup Transactions	Daily	H	QD80FO	801	Transaction Cards	RQD10F01U RQD10F02U RQD10F03U

FIGURE 3-01. TLM Subsystem Input Requirements (continued)

INPUT CAUSE	INPUT TIME	INPUT ORIGIN	INPUT PROGRAM	INPUT PCN	INPUT MEDIA	ASSOCIATED INPUT
JCL for Schedule/ Forecast	Daily	M	QD90FO	901	Forecast, Schedule or Package Request Cards	FQD96F0TU RQD10F01U
JCL for IMCV Build	Daily	M	QD91F0	911	Transaction Cards and Packages	FQD90F0TU FQD96F0TU
JCL for Tape Labels	Daily	M	QD93FO	931	Label Request Cards	FQD91F0TU RQD10F02U
JCL for WLM Reports	As Needed	M	QD94FO QD95FO	951	Management Reports Request Cards	FQD96F0TU FQD96F0TU
JCL for Edit/ Update	As Needed	M	QD96FO	961	Transaction Cards and Packages	FQD96F0TU

FIGURE 3-02. WLM Subsystem Batch Input Requirements

PCNSQ105-011		
00FACT0900901 0202		
01REEL00000100024		
02REEL0010100115		
03SITE1HOSTSFOPRD03	SWAMEE3	AABB
04SITE1IDENT FQ104A	/30/,U/DCPRDC ,	PHILPOTT ACDX
05SITE2REMOTFOPRD04	SWAMEE4	CCCDX1
06SITE2IDENT FQ104A	/31/,U/DCFRXX ,	JONES ACDTT

FIGURE 3-03. Sample PIC and Control Cards



SKELADD TESTCASEFOUR123451101U999D203090LIB 22 CHAR REMARKS  
SKELCHG TESTCASEFIVE123451101C010C203090XXXXSKETON CHANGE  
SKELREM ON-LINETEST1123451  
MONIADD13303ACDXCCCHARLES LINCOLN12345677654321WILLIAM GOODMAN1ST FLOOR  
MONIADD23303LOCATED AT REMOTE SITE 3  
MONICHG11101ACDERRNEIL WHITEHORSE12345677654321ROMAN THOMASROOM 345-B  
MONICHG21101THIS IS A REMARKS CHANGE  
MONIREM 2202  
MASTUPD 00001COBOL-TEST-111111780724130001REMARKS OVERLAY  
MASTSCR 00002  
MASTCLN 00105 00106  
MASTCER 00016  
MASTCCLN 00017  
MASTSCLN 00102 00020  
MASTCHG100015COBOL\_TEST-111111101U7808081155780801REMARKS OVERLAY  
MASTCHG200015 005CYVAULT 7808097909092030900000000077010101LIBOPT

FIGURE 3-04. Sample Transaction Cards for PLM

PCNSQ105-901  
#FORE0215 0314  
#SCHD0326 C  
00321  
#DATE0407  
#LABSAMPLEINPUT1WJE4106NJE39  
MGT-RPTS 1 1 1

FIGURE 3-05. Sample PIC and Request Cards

\$	TAPE9	F1,X1R							
\$	TAPE9	F2,X2DP,,,	SAMPLETEST7					11111	
\$	TAPE9	F3,X3DD,,	99999,,	SAMPLETEST9				60201	
1	1	1	1	04#SCHD					
\$	READ	C1		SQ104A991					
#PCNPSQ105-961		SAMPLEOUTPUT		OL06NDUNCNNAAKM099100101					
#OPR AA100CPNS		MR RICHARDS		92112349211235MR COLE					

FIGURE 3-06. Sample Package Cards



PRG ID	OUTPUT PURPOSE	OUTPUT TIME	VARI- ATIONS	OUTPUT FILES	OUTPUT	
					PCN	USERS
04	Reformat Master File	One	None	PQD04FOLU RQD10F01U	042	H, M
05	List cards, errors and actions. Reinitialize TLM data base.	As Needed	See para 2.7.1.2.2	PQD05FOLU RQD10F01U RQD10F02U RQD10F03U	052	H, M
20	Automatic capture and update.	As Selected	None	RQD10F01U	NA	H
30	List all reels.	As Needed	By site code	PQD30FOLU	302	H, R
31	List all reels except scratch.	As Needed	By site code	PQD31FOLU	312	H, R
32	List all reels except scratch.	As Needed	By site code and system monitor	PQD32FOLU	322	H, R
33	List all reels except scratch.	As Needed	By site code	PQD33FOLU	332	H, R
34	List all reels.	As Needed	By site code	PQD34FOLU	342	H, R
35	As Needed	As Requested	By site code	PQD35FOLU PQD40FOLU	352 402	H, R. H, R
40	List all skeletons.	As Needed	By site code			
45	List all monitors.	As Needed	By site code	PQD45FOLU	452	H, R
50	List reels scheduled for shipping off-site.	As Needed	By site code	PQD50FOLU	502	H, R
51	List reels stored off-site.	As Needed	By site code	PQD51FOLU	512	H, R
52	List reels with 999 retention	As Needed	By site code	PQD52FOLU	522	H, R
53	List reels needing scratch.	As Needed	By site code	PQD53FOLU	532	H, R
54	List reels needing clean and/or certify.	As Needed	By site code	PQD55FOLU	542	H, R

FIGURE 3-08. TLM Subsystem Batch Output Requirements

PRG ID	OUTPUT PURPOSE	OUTPUT TIME	VARI- ATIONS	OUTPUT FILES	OUTPUT	
					PCN	USERS
55	List available scratch reels.	As Needed	None	PQD55FOLU	552	H
60	Control card edit list. Lists scratched reels.	As Needed	See para 2.7.1.6.1	PQD60FOLU RQD10F01U	602	H, R
65	Control card edit list. Lists all actions performed.	As Needed	See para 2.7.1.7.1	PQD65FOLU RQD10F01U RQD10F02U	652	H, R
70	Checks and lists all acted upon data records and all automatic update errors.	Daily	None	PQD70FOLU RQD10F01U RQD10F02U RQD10F03U	702	H
<del>75</del>	<del>List formatted tape log.</del>	<del>As Needed</del>	<del>None</del>	<del>PQD75FOLU</del>	<del>752</del>	<del>H</del>
80	Add, change, remove, update, scratch, clean or certify data base elements.	Daily	None	PQD80FOLU RQD10F01U RQD10F02U RQD10F03U	802	H

FIGURE 3-08. TLM Subsystem Batch Output Requirements (continued)

PRG ID	OUTPUT PURPOSE	OUTPUT TIME	VARI- ATIONS	OUTPUT FILES	OUTPUT	
					PCN	USERS
90	List forecasted jobs.	As Needed	See	PQD90FOLU	902	M
	List scheduled jobs.	Daily	para	PQD90FOLU	903	M
	Create Selected JCL file with current reels.	Daily	2.7.2.1.2	FQD90FOTU		
91	List job data.	Daily	See	PQD91FOLU	912	M
	List pull tapes.	Daily	para	PQD91FOLU	913	M
	List needed inputs.	Daily	2.7.2.2.2	PQD91FOLU	914	M
	List outputs produced.	Daily		PQD91FOLU	915	M
	Create IMCV Build file.	Daily		FQD91FOTU		
93	List request errors.	Daily	See	PQD91FOLU	932	M
	List partial tape labels.	Daily	para 2.7.2.3.2	PQD91FOFU	933	M
94	List SNUMB - Packages X-REF	As Needed	None	PQD94FOLU	942	M
95	List PCN/RCS records.	As Needed	See para	PQD95FOLU	952	M
	List OPR records.	As Needed	2.7.2.4.2	PQD95FOLU	953	M
				PQD95FOLU	954	M
96	List transactions.	As	See	PQD96FOLU	962	M
	Add, change, delete JCL.	Needed	para 2.7.2.5.2	FQD96FOTU		

FIGURE 3-09. WLM Subsystem Batch Output Requirements

\*\*\* FILE CONVERSION COMPLETE WITH 1992 DATA RECORDS

[illegible]

FIGURE 3-10. Master Control Conversion List



U N C L A S S I F I E D

U N C L A S S I F I E D

USAF TAPE LIBRARY REINITIALIZED DATA BASE LIST AS OF 20 OCT 18 PCN 50105-032  
RANDOM FILES

DATE 10-18-80	24SITEIDENT	F0105	NY	/31/.U/DCPRDC	,MANGIN	BLDG 1510	00000310
PREPARED 20 OCT 18 12:51	25SITEPRMT1	WORD-PROC	TYPE	CCCCFZA			00000320
0005FO HPO326	26SITEIDENT	F0105	NY	/31/.U/DCPRDC	,SCAFF	BLDG 1510	00000330
	27SITEPRMT2	FOPR005	SWAMEES	CCCCFZA			00000340
	28SITEIDENT	F0105	NY	/31/.U/DCPRDC	,MAGAN	BLDG 1510	00000350
	29SITEPRMT3	FOPR006	SWAMEEB	CCCCFZA			00000360
	30SITEIDENT	F0105	NY	/31/.DCPRDC	,MANGIN		00000370
	31SITEPRMT4	FOPR007	SWAMEE7	CCCCFZA			00000380
	32SITEIDENT	F0105	NY	/31/.DCPRDC	,MANGIN		00000390
	33SITEPRMT5	FOPR008	SWAMEEB	CCCCFZA			00000400
	34SITEIDENT	F0105	NY	/31/.DCPRDC	,MANGIN		00000410
	35SITEPRMT6	FOPR009	SWAMEE9	CCCCFZA			00000420
	36SITEIDENT	F0105	NY	/31/.DCPRDC	,MANGIN		00000430
	37SITEPRMT7	FOPR010	SWAMEE0	CCCCFZA			00000440
	38SITEIDENT	F0105	NY	/31/.DCPRDC	,MANGIN		00000450
	39SITEPRMT8	FOPR011	SWAMEE0	CCCCFZA			00000460
	40SITEIDENT	F0105	NY	/31/.DCPRDC	,MANGIN		00000470
	41SITEPRMT9	FOPR012	SWAMEEB	CCCCFZA			00000480
	42SITEIDENT	F0105	NY	/31/.DCPRDC	,MANGIN		00000490
	43SITEPRMTA	FOPR013	SWAMEEC	CCCCFZA			00000500
	44SITEIDENT	F0105	NY	/31/.DCPRDC	,MANGIN		00000510
	SKELETON						00000520
	MONITOR						00000530

-- NO CARD ERRORS --

MASTER INITIALIZATION STARTED

PAGE 2

FIGURE 3-11. Reinitialized Data Base Files

U N C L A S S I F I E D

U N C L A S S I F I E D

DATE 10-18-80

PREPARED 80 OCT 18 11:01  
3030FC MR0326USAF TAPE LIBRARY MASTER/REEL LIST  
REEL NUMBER SEQUENCE - ENTRIES FOR HOST

AS OF 80 OCT 18 PCN S0105-302

REEL NUM	FILE-ID	FILE	SYS	SE	DATE	CTL	C	MON	QU	CR	TD	CR	TD	TIME	AS	CF	DATE	RE	EM	S	LOC	ATION	SHIP	DATE	RE	TA	DATE	BACK	UP	RE	MARKS
G0024	COBOL-TEST-4	4444	1	101	1	800312	0900	800912	0300	U	N	LIBRARY	103004	TEST																	
G0027	COBOL-TEST-4	4444	1	101	1	800322	0900	800922	0300	U	N	LIBRARY	103004	TEST																	
G0029	COBOL-TEST-4	4444	1	101	1	800330	1337	800930	0300	U	N	LIBRARY	103004	TEST																	
G0026	COBOL-TEST-4	4444	1	101	1	800311	1200	800911	0300	U	N	LIBRARY	103004	TEST																	
G0030	COBOL-TEST-4	4444	1	101	1	900321	1100	800921	0300	U	N	LIBRARY	103004	TEST																	
G0031	COBOL-TEST-3	3333	1	101	1	800322	1200	800922	0300	U	N	LIBRARY	103004	TEST																	
G0032	COBOL-TEST-7	7777	2	200	1	800315	1200	800915	0300	U	N	LIBRARY	103004	TEST																	
G0033	COBOL-TEST-4	4444	1	101	1	800301	1100	800901	9990	U	N	LIBRARY	103004	TEST																	
G0034	COBOL-TEST-4	4444	1	101	1	800323	0900	800923	0300	U	N	LIBRARY	103004	TEST																	
G0035	COBOL-TEST-4	4444	1	101	1	800313	0900	800913	0300	U	N	LIBRARY	103004	TEST																	
G0037	COBOL-TEST-4	4444	1	101	1	800322	0900	800922	0300	U	N	LIBRARY	103004	TEST																	
G0038	COBOL-TEST-4	4444	1	101	1	800322	0900	800922	0300	U	N	LIBRARY	103004	TEST																	
G0039	COBOL-TEST-4	4444	1	101	1	800321	0900	800921	0300	U	N	LIBRARY	103004	TEST																	
G0040	COBOL-TEST-4	4444	1	101	1	800312	0900	800912	0300	U	N	LIBRARY	103004	TEST																	
G0041	COBOL-TEST-4	4444	1	101	1	800322	0900	800922	0300	U	N	LIBRARY	103004	TEST																	
G0042	COBOL-TEST-4	4444	1	101	1	800330	1337	800930	0300	U	N	LIBRARY	103004	TEST																	
G0043	COBOL-TEST-4	4444	1	101	1	800311	1200	800911	0300	U	N	LIBRARY	103004	TEST																	
G0044	COBOL-TEST-4	4444	1	101	1	800321	1100	800921	0300	U	N	LIBRARY	103004	TEST																	
G0045	COBOL-TEST-3	3333	1	101	1	800322	1200	800922	0300	U	N	LIBRARY	103004	TEST																	
G0046	COBOL-TEST-7	7777	2	200	1	800315	1200	800915	0300	U	N	LIBRARY	103004	TEST																	
G0047	COBOL-TEST-4	4444	1	101	1	800301	1100	800901	9990	U	N	LIBRARY	103004	TEST																	
G0048	COBOL-TEST-4	4444	1	101	1	800323	0900	800923	0300	U	N	LIBRARY	103004	TEST																	
G0049	COBOL-TEST-4	4444	1	101	1	800313	0900	800913	0300	U	N	LIBRARY	103004	TEST																	
G0050	COBOL-TEST-4	4444	1	101	1	800322	0900	800922	0300	U	N	LIBRARY	103004	TEST																	
G0051	COBOL-TEST-4	4444	1	101	1	800321	0900	800921	0300	U	N	LIBRARY	103004	TEST																	
G0052	COBOL-TEST-4	4444	1	101	1	800322	0900	800922	0300	U	N	LIBRARY	103004	TEST																	
G0053	COBOL-TEST-4	4444	1	101	1	800321	0900	800921	0300	U	N	LIBRARY	103004	TEST																	
G0054	COBOL-TEST-4	4444	1	101	1	800312	0900	800912	0300	U	N	LIBRARY	103004	TEST																	
G0056	COBOL-TEST-4	4444	1	101	1	800312	0900	800912	0300	U	N	LIBRARY	103004	TEST																	

LIB  
COPY

FIGURE 3-12. Master/Reel List

## UNCLASSIFIED

## UNCLASSIFIED

DATE 10-18-80

 PREPARED 80 OCT 19 11:01  
 0D31FQ H80326

 USAF TAPE LIBRARY MASTER/FILE-ID LIST  
 FILE-ID SEQUENCE - ENTRIES FOR HOST

AS OF 80 OCT 18 PCN 50105-312

FILE-ID	FILE	S	SYS	REEL	SE	DATE	TIME	AS OF	RET	S	O	LOCATION	SHIPD	DATE	RETN	BACKUP	REMARKS	LIB	OPT6
	CTL	C	MON	NUM	OU	CRETD	CPTD	DATE	DATE	REMS									
COBOL-TEST-4	4444	1	101	60053	1	800913	0900	800921	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60062	1	800913	0900	800913	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60011	1	800913	0900	800913	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60022	1	800913	0900	800913	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60025	1	800913	0900	800913	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60036	1	800913	0900	800913	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60050	1	800913	0900	800913	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60101	1	800912	0900	800912	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	99055	1	800912	0900	800912	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60026	1	800912	0900	800912	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60040	1	800912	0900	800912	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60054	1	800912	0900	800912	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60064	1	800912	0900	800912	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	00164	1	800911	1200	800911	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	10051	1	800911	1200	800911	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	40064	1	800911	1200	800911	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60015	1	800911	1200	800911	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60029	1	800911	1200	800911	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-4	4444	1	101	60043	1	800911	1200	800911	0300	U	N	LIBRARY				103004	TEST		
COBOL-TEST-7	7777	2	200	10054	1	800915	1200	800915	003C	U	N	LIBRARY				102003	TEST		
COBOL-TEST-7	7777	2	200	02053	1	800915	1200	800915	003C	U	N	LIBRARY				102003	TEST		
COBOL-TEST-7	7777	2	200	80038	1	800915	1200	800915	003C	U	N	LIBRARY				102003	TEST		
COBOL-TEST-7	7777	2	200	60018	1	800915	1200	800915	003C	U	N	LIBRARY				102003	TEST		
COBOL-TEST-7	7777	2	200	60032	1	800915	1200	800915	003C	U	N	LIBRARY				102003	TEST		
COBOL-TEST-7	7777	2	200	60046	1	800915	1200	800915	003C	U	N	LIBRARY				102003	TEST		
COBOL-TEST-A	2234	A	100	10055	1	800901	1100	800901	999D	U	N	LIBRARY				103004	TEST		
COBOL-TEST-A	2234	A	100	03001	1	800901	1100	800901	999D	U	N	LIBRARY				103004	TEST		
COBOL-TEST-A	2234	A	100	80051	1	800901	1100	800901	999D	U	N	LIBRARY				103004	TEST		
COBOL-TEST-A	2234	A	100	60019	1	800901	1100	800901	999D	U	N	LIBRARY				103004	TEST		
COBOL-TEST-A	2234	A	100	60033	1	800901	1100	800901	999D	U	N	LIBRARY				103004	TEST		
COBOL-TEST-A	2234	A	100	60047	1	800901	1100	800901	999D	U	N	LIBRARY				103004	TEST		

FIGURE 3-13. Master/File-ID List

AS OF 80 OCT 18 PCN 50105-322

USAF TAPE LIBRARY MASTER/MONITOR LIST  
MONITOR SEQUENCE - ENTRIES FOR HOSTPREPARED 80 OCT 18 13:10  
Q032F0 H803261 101  
PRRD 1510  
TEST

BETTY WHITE

7788

8866

BILLY C

000

SYS MON	FILE-ID	FILE CTL	REEL NUM	SE QU	DATE CRETD	TIME CRTD	AS OF DATE	RET REM	S E	O S	REMARKS	LIB OPT6
101	COBOL-TEST-3	33333	10053	1	800922	1200	800922	0300	U	N	TEST	
101	COBOL-TEST-3	33333	02005	1	800922	1200	800922	0300	U	N	TEST	
101	COBOL-TEST-3	33333	80025	1	800922	1200	800922	-0010	U	N	TEST	
101	COBOL-TEST-3	33333	80017	1	800922	1200	800922	0300	U	N	TEST	
101	COBOL-TEST-3	33333	60031	1	800922	1200	800922	0300	U	N	TEST	
101	COBOL-TEST-3	33333	60045	1	800922	1200	800922	0300	U	N	TEST	
101	COBOL-TEST-4	44444	00151	1	800930	1337	800930	0300	U	N	TEST	
101	COBOL-TEST-4	44444	10015	1	800930	1337	800930	0000	U	N	TEST	
101	COBOL-TEST-4	44444	A0051	1	800930	1337	800930	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0014	1	800930	1337	800930	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0028	1	800930	1337	800930	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0042	1	800930	1337	800930	0300	U	N	TEST	
101	COBOL-TEST-4	44444	00001	1	800923	0900	800923	0300	U	N	TEST	
101	COBOL-TEST-4	44444	03014	1	800923	0900	800923	0300	U	N	TEST	
101	COBOL-TEST-4	44444	80064	1	800923	0900	800923	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0020	1	800923	0900	800923	-0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0034	1	800923	0900	800923	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0048	1	800923	0900	800923	0300	U	N	TEST	
101	COBOL-TEST-4	44444	00014	1	800923	0800	800923	0300	U	N	TEST	
101	COBOL-TEST-4	44444	03065	1	800923	0800	800923	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0012	1	800923	0800	800923	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0021	1	800923	0800	800923	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0035	1	800923	0800	800923	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0049	1	800923	0800	800923	0300	U	N	TEST	
101	COBOL-TEST-4	44444	00075	1	800922	0900	800922	0300	U	N	TEST	
101	COBOL-TEST-4	44444	00114	1	800922	0900	800922	0300	U	N	TEST	
101	COBOL-TEST-4	44444	60059	1	800922	0900	800922	0300	U	N	TEST	
101	COBOL-TEST-4	44444	A0003	1	800922	0900	800922	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0013	1	800922	0900	800922	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0023	1	800922	0900	800922	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0027	1	800922	0900	800922	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0038	1	800922	0900	800922	-0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0041	1	800922	0900	800922	-0070	U	N	TEST	
101	COBOL-TEST-4	44444	G0052	1	800922	0900	800922	0300	U	N	TEST	
101	COBOL-TEST-4	44444	10052	1	800921	1100	800921	0300	U	N	TEST	
101	COBOL-TEST-4	44444	01057	1	800921	1100	800921	0300	U	N	TEST	
101	COBOL-TEST-4	44444	80012	1	800921	1100	800921	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0016	1	800921	1100	800921	0300	U	N	TEST	
101	COBOL-TEST-4	44444	G0030	1	800921	1100	800921	0300	U	N	TEST	

PAGE 1

FIGURE 3-14. Master/Monitor List

PREPARED 20 OCT 18 13:12  
 QD33FO H80326

USAF TAPE LIBRARY MASTER/FILE-CTL LIST  
 FILE CONTROL SEQUENCE - ENTRIES FOR HOST

AS OF 80 OCT 18 PCN S0105-332

FILE CTL	FILE-ID	S MON	SYS REEL	SE DATE	QU CREID	CRD	TIME AS OF	DATE	RET S O	LOC ATION	SHIPD	DATE RETN	BACKUP	REMARKS	LIB OPT6
44444	COBOL-TEST-4	1	101	60024	1	800921	0900	800921	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60025	1	800913	0900	800913	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60026	1	800912	0900	800912	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60027	1	800922	0900	800922	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60028	1	800930	1337	800930	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60029	1	800911	1200	800911	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60030	1	800921	1100	800921	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60034	1	800923	0900	800923	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60035	1	800923	0800	800923	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60036	1	800913	0900	800913	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60037	1	800922	0900	800922	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60038	1	800922	0900	800922	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60039	1	800921	0900	800921	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60040	1	800912	0900	800912	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60041	1	800922	0900	800922	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60042	1	800930	1337	800930	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60043	1	800911	1200	800911	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60044	1	800921	1100	800921	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60048	1	800923	0900	800923	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60049	1	800923	0800	800923	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60050	1	800913	0900	800913	0300	U N	LIBRARY		103004	TEST	
44444	COBOL-TEST-4	1	101	60051	1	800921	0900	800921	0300	U N	LIBRARY	801011	103004	TEST	
44444	COBOL-TEST-4	1	101	60052	1	800922	0900	800922	0300	U N	LIBRARY	801012	103004	TEST	
44444	COBOL-TEST-4	1	101	60053	1	800921	0900	800921	0300	U N	LIBRARY	801013	103004	TEST	
44444	COBOL-TEST-4	1	101	60054	1	800912	0900	800912	0300	U N	LIBRARY	801014	103004	TEST	
44444	COBOL-TEST-4	1	101	60054	1	800912	0900	800912	0300	U N	LIBRARY		103004	TEST	
77777	COBOL-TEST-7	2	200	10054	1	800915	1200	800915	0030	U N	LIBRARY		102003	TEST	
77777	COBOL-TEST-7	2	200	02053	1	800915	1200	800915	0030	U N	LIBRARY		102003	TEST	
77777	COBOL-TEST-7	2	200	00018	1	800915	1200	800915	0030	U N	LIBRARY		102003	TEST	
77777	COBOL-TEST-7	2	200	60018	1	800915	1200	800915	0030	U N	LIBRARY		102003	TEST	
77777	COBOL-TEST-7	2	200	60032	1	800915	1200	800915	0030	U N	LIBRARY		102003	TEST	
77777	COBOL-TEST-7	2	200	60046	1	800915	1200	800915	0030	U N	LIBRARY		102003	TEST	

FIGURE 3-15. Master/File-CTL List



14 November 1988

PREPARED 80 OCT 21 11:23  
 004070 460326

USAF TAPE II VARY SKELETON LIST  
 FILE-ID SEQUENCE - ENTRIES FOR HOST

AS OF 80 OCT 21 PCN 50105-402

FILE CTL	FILE-ID	S C	SYS VON	S E	INITIAL RETENTION	BACKUP	REMARKS	LIR OPT3
22222	COROL-TEST-2	A	100	U	9900	103004		
33333	COROL-TEST-3	1	101	U	0300	103004		
44444	COROL-TEST-4	1	101	U	0200	103004		
55555	COROL-TEST-5	1	101	U	0300	103004		
66666	COROL-TEST-6	A	100	U	9900	103004		
77777	COROL-TEST-7	2	200	U	0030	102003		
88888	COROL-TEST-8	2	201	U	0300	103004		
99999	COROL-TEST-9	1	101	U	0300	103004		
11111	COROL-TEST-10	2	201	U	0300	103004		

FIGURE 3-17. Skeleton List

CONTROL PAR. ER EDIT

Q035F0 107

PARAMS/2.FILE-ID.1.2/3.FI-CTL.1.3/4.SC.1.4/5.MON.1.1/1.REEL.1.1//  
PARAMS/10.SEQ.1.7/7.CRED.1.8/TIME.1.9/AS OF.1.11. RET.1.6/SE.1.1//  
PARAMS/12.OS.1.13/LOCATION.1.14/SMIPD.1.15/RETND.1.16/BACKUP.1.1//  
PARAMS/17.CLND.1.18/NUM.1.19/CERTD.1.20/NUM.1.21/OPT-6.1.21//  
PCNS0105-351  
SELECT/3=2/6=T//  
TITLE/MASTER LIST OF TS TAPES//

PAGE 1

\* Figure 3-17.1. Control Parameter Edit



PCNSQ105-252

TAPE LIBRARY INQUIRY  
MASTER LIST OF TS TAPES

FILE-ID	FI-CTL	SC	MCN	REEL	SEQ	CREID	TIME	AS OF	REI	SE	OS	LOCATION	SHIPD	RETNED	EACKUF	CLNED	NUM	CERTD	NUM	OPT-6
TSCDSKPK	23143	1	222	30080	01	800101	0610	800101	998C	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
TSCDSKPK	23143	1	222	30081	01	800101	0001	800101	989C	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
TSCDSKPK	23143	1	222	30082	01	800101	0002	800101	990C	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
TSCDSKPK	23143	1	222	30083	01	800101	0003	800101	991C	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
TSCDSKPK	23143	1	222	30084	01	800101	0004	800101	992C	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
TSCDSKPK	23143	1	222	30085	01	800101	0005	800101	993C	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
TSCDSKPK	23143	1	222	30086	01	800101	0006	800101	994C	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
TSCDSKPK	23143	1	222	30087	01	800101	0007	800101	995C	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
TSCDSKPK	23143	1	222	30088	01	800101	0008	800101	996C	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
TSCDSKPK	23143	1	222	30089	01	800101	0009	800101	997C	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
JOPS7204	20402	1	006	88000	01	800401	0900	800401	692D	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
JOPS7204	20402	1	006	88004	01	791014	2127	781014	522D	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
JOPS7204	20402	1	006	88007	01	800201	2300	800201	632D	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
JOPS7204	20402	1	006	88009	01	800213	2200	800213	644D	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
JOPS7204	20402	1	006	88011	01	790316	2100	790316	310D	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000
JOPS7204	20402	1	006	88013	01	800214	0810	800214	645D	T	N	LIBRARY	000000	000000	000000	000000	00	000000	00	000000

END PAGE 2

PREPARED 80 OCT 01 11:26  
 QD45FC HQ0326

USAF TAPE LI RARY MONITOR LIST  
 MONITOR SEQUENCE - ENTRIES FOR HOST

AS OF 80 OCT 21 PCN SC105-052

S	SYS	OFF	SYN	ADDRESS	NAME OF PRIMARY CONTACT	PAIIVE PHONE	ALTER PHONE	NAME OF ALTER CONTACT	REMARKS	LIB OPT4
A	100	PRDC		1511	KEN HANGIN	5066	5567	RIC JONES	TEST	000
1	101	PRRD		1510	BETTY WHITE	7789	8866	BILLY C	TEST	000
2	201	PRDD		1510	JACK KNIGHT	4433	4423	SUE JONES	TEST	000
2	202	PRD		1411	JOHN FREN	5788	8877	MAY WEST	TEST	000

END PAGE 1

FIGURE 3-18. Monitor List

PREPARED 80 OCT 18 13:21  
 005000 H80326

USAF TAPE LIBRARY OFF-SITE SHIPPING LIST  
 REEL NUMBER SEQUENCE - ENTRIES FOR HOST

AS OF 80 OCT 18 PCN S0105-502

REEL NUM	FILE-ID	FILE CTL	S C	SYS MON	SE OU	DATE CRETD	TIME CRTD	AS OF DATE	RET REM	S E	LOCATION	BACKUP	REMARKS	LIB OPT6	
02053	COBOL-TEST-7	7777	2	200	1	800915	1200	800915	003C	U	N	LIBRARY	102003	TEST	
A0051	COBOL-TEST-4	4444	1	101	1	800930	1337	800930	030D	U	N	LIBRARY	103004	TEST	
50025	COBOL-TEST-3	3333	1	101	1	800922	1200	800922	-001D	U	N	LIBRARY	103004	TEST	
90034	COBOL-TEST-7	7777	2	200	1	800915	1200	800915	003C	U	N	LIBRARY	102003	TEST	
90051	COBOL-TEST-A	2334	A	100	1	800901	1100	800901	999D	U	N	LIBRARY	103004	TEST	
G0014	COBOL-TEST-4	4444	1	101	1	800930	1337	800930	030D	U	N	LIBRARY	103004	TEST	
G0017	COBOL-TEST-3	3333	1	101	1	800922	1200	800922	030D	U	N	LIBRARY	103004	TEST	
G0019	COBOL-TEST-A	2334	A	100	1	800901	1100	800901	999D	U	N	LIBRARY	103004	TEST	

FIGURE 3-19. Off-Site Shipping List

PREPARED 30 OCT 13 13:22  
 OD51F 480326  
 FILE S SYS SE DATE CTL C MON QU CRET CRTD TIME AS OF RET NEW F S LOCATION DATE SHIPD DATE RETN BACKUP REMARKS LIB OPTG DUE NOB  
 RFEI NUV FILE-ID  
 G0050 C050L-TEST-4 4444 1 101 1 800913 0300 800913 0300 U Y LIBRARY 801011 103004 TEST  
 G0051 C050L-TEST-4 4444 1 101 1 800921 0300 800921 0300 U Y LIBRARY 801012 103004 TEST  
 G0052 C050L-TEST-4 4444 1 101 1 800922 0300 800922 0300 U Y LIBRARY 801013 103004 TEST  
 G0053 C050L-TEST-4 4444 1 101 1 800921 0300 800921 0300 U Y LIBRARY 801013 103004 TEST  
 G0054 C050L-TEST-4 4444 1 101 1 800913 0300 800913 0300 U Y LIBRARY 801014 103004 TEST

FIGURE 3-20. Off-Site Storage List

PREPARED 80 OCT 18 14:11  
 0052FO H0326

FILE-IP FILE S SYS REEL SE DATE CREID TIME AS OF DATE S O LOCATION DATE SHIPD RETN DATE REMARKS LIB OPT6

COBOL-TEST-A 22334 A 100 10055 1 800901 1100 800901 U N LIBRARY TEST  
 COBOL-TEST-A 22334 A 100 03001 1 800901 1100 800901 U N LIBRARY TEST  
 COBOL-TEST-A 22334 A 100 80051 1 800901 1100 800901 U N LIBRARY TEST  
 COBOL-TEST-A 22334 A 100 60019 1 800901 1100 800901 U N LIBRARY TEST  
 COBOL-TEST-A 22334 A 100 60033 1 800901 1100 800901 U N LIBRARY TEST  
 COBOL-TEST-A 22334 A 100 60047 1 800901 1100 800901 U N LIBRARY TEST

END PAGE 1

FIGURE 3-21. 999 Retention Tapes List

PREPARED 80 OCT 18 13:12  
 Q053FO H80326

1 101  
 PRD 1510  
 TEST

BETTY WHITE 7788 8866 BILLY C 000

USAF TAPE LIBRARY SCRATCH CANDIDATE LIST  
 REEL NUMBER SEQUENCE - ENTRIES FOR HOST

AS OF 80 OCT 18 PCN SQ105-532

DISPO- SITION	AUTHORIZED BY	RET REM	REEL NUM	FILE- ID	FILE CTL	SE QU	DATE CRETD	TIME CRTD	AS OF DATE	REMARKS	LIB OPT6	DUE NOW
SAV SCR	-----	0000	10015	COBOL-TEST-4	44444	1	800930	1337	800930	TEST		***
SAV SCR	-----	-0010	80025	COBOL-TEST-3	33333	1	800922	1200	800922	TEST		***
SAV SCR	-----	-0300	60020	COBOL-TEST-4	44444	1	800923	0900	800923	TEST		***
SAV SCR	-----	-0030	60022	COBOL-TEST-4	44444	1	800913	0900	800913	TEST		***
SAV SCR	-----	-0300	60037	COBOL-TEST-4	44444	1	800922	0900	800922	TEST		***
SAV SCR	-----	-0070	60038	COBOL-TEST-4	44444	1	800922	0900	800922	TEST		***

PAGE 1

FIGURE 3-22. Scratch Candidate List

14 November 1980

PREPARED 80 OCT 18 13:22  
 2D5AF0 H80326

USAF TAPE LIBRARY CLEAN/CERTIFY CANDIDATE LIST AS OF 80 OCT 18 PCN SG105-542  
 REEL NUMBER SEQUENCE - ENTRIES FOR HOST  
 CLEAN FACTOR = 120 CERTIFY FACTOR = 120

REEL NUM	FILE-ID	FILE CTL	S C	DATE CRETD	REV	O S	LOCATION	DATE SHIPD	RETN DATE	DATE CLEND	# CL	DATE CERTD	# CE	LIB OPT6	REEL NEEDS
A0003	COBOL-TEST-4	44444	1	800922	0300	N	LIBRARY			800518	1	900518	1		CLN/CRT
A0051	COBOL-TEST-4	44444	1	800930	0300	N	LIBRARY			800618	1	900618	1		CLN/CRT
A0064	COBOL-TEST-4	44444	1	800911	0300	N	LIBRARY			800418	1	900418	1		CLN/CRT

FIGURE 3-23. Clean/Certify Candidate List

PAGE 2

FIGURE 3-24. Available Scratch Tapes List



PREPARED 80 OCT 18 13:23  
 Q060F0 H80326

USAF TAPE LIBRARY AUTOMATIC SCRATCH LIST  
 REEL NUMBER SEQUENCE

AS OF 80 OCT 18 PCN S0105-602

REEL NUM	FILE-ID	FILE CTL	SE QU	DATE CRETD	TIME CRTD	AS OF DATE	REM S	LOCATION	REMARKS	LIB OPT6	COMMENTS
10015	C080L-TEST-4	44444	1	800930	1337	800930	0000	N LIBRARY	TEST		
80025	C080L-TEST-3	33332	1	800922	1200	800922	-0010	N LIBRARY	TEST		
G0020	C080L-TEST-4	44444	1	800923	0900	800923	-0300	N LIBRARY	TEST		
G0072	C080L-TEST-4	44444	1	800913	0900	800913	-0030	N LIBRARY	TEST		
G0037	C080L-TEST-4	44444	1	800922	0900	800922	-0300	N LIBRARY	TEST		
G0038	C080L-TEST-4	44444	1	800922	0900	800922	-0070	N LIBRARY	TEST		

FIGURE 3-25. Automatic Scratch List

\*\*\*\*\*LISTING ONLY-NO TAPES SCRATCHED\*\*\*\*\*

PREPARED 20 OCT 19 13:27  
2065FJ MB0326

USAF TAPE LIBRARY FILE-ID FILE-CTL CHANGE LIST AS OF 20 OCT 18 PCN SG105-652  
FILE-ID FILE-CTL MASTER CHANGE LIST

REEL NUMBER	OLD FILE-ID	NEW FILE-ID	OLD FILE-CTL	NEW FILE-CTL	SITE CODE	SYS MON	SEC CLS	MESSAGE
00001	COBOL-TEST-1	COBOL-TEST-3	44444	33333	1	101	U	
00014	COBOL-TEST-1	COBOL-TEST-3	44444	33333	1	101	U	
00062	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
00075	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
00098	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
00101	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
00114	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
00151	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
00164	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
01057	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
03014	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
03065	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
10015	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
10051	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
10052	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
60011	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
60059	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
99007	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
99055	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
A0003	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
AC051	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
A0064	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	
B0012	COBOL-TEST-4	COBOL-TEST-3	44444	33333	1	101	U	

PREPARED 80 OCT 18 17:31  
0070FN 480326

USAF TAPE LIBRARY COB ACTIONS LIST  
MASTER FILE ACTIONS

AS OF 80 OCT 18 PCN 50105-702

CURRENT RECORD INFORMATION

FILE S	S	SE	RET	0	LOCATION	SHIP'D	RETURN	BACKUP	CLND	DATE	#	DATE	#	LAST ACTS	MACTS								
REEL#	FILE-ID	CTL	C	MON	E	CRETD	TIME	AS	OF	QU	REM	S	LOCATION	SHIP'D	RETURN	BACKUP	CLND	DATE	#	DATE	#	LAST ACTS	MACTS
G0027	C080L-TEST-3 33133	1	101	U	800922	0900	800922	01	0010	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=	F=B	S=B	2	
G0037	C080L-TEST-3 33133	1	101	U	800922	0900	800922	01	0020	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=B	F=D	S=B	3	
G0039	C080L-TEST-3 33133	1	101	U	800922	0900	800922	01	0240	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=B	F=D	S=B	3	
G0041	C080L-TEST-3 33133	1	101	U	800922	0900	800922	01	0070	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=	F=B	S=B	2	
G0052	C080L-TEST-3 33133	1	101	U	800922	0900	800922	01	0190	Y	LIBRARY	801013	000000	103004	801018	01	801018	01	G=B	F=D	S=B	3	
10052	C080L-TEST-3 33133	1	101	U	800921	1100	800921	01	0060	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=	F=B	S=B	2	
01057	C080L-TEST-3 33133	1	101	U	800921	1100	800921	01	0020	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=	F=B	S=B	2	
30012	C080L-TEST-3 33133	1	101	U	800921	1100	800921	01	0060	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=	F=B	S=B	2	
G0015	C080L-TEST-3 33133	1	101	U	800921	1100	800921	01	0090	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=	F=B	S=B	2	
G0030	C080L-TEST-3 33133	1	101	U	800921	1100	800921	01	0070	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=	F=B	S=B	2	
G0044	C080L-TEST-3 33133	1	101	U	800921	1100	800921	01	0010	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=	F=B	S=B	2	
00049	C080L-TEST-3 33133	1	101	U	800921	0900	800921	01	0160	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=	F=B	S=B	2	
99007	C080L-TEST-3 33133	1	101	U	800921	0900	800921	01	0240	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=	F=B	S=B	2	
G0024	C080L-TEST-3 33133	1	101	U	800921	0900	800921	01	0260	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=	F=B	S=B	2	
G0035	C080L-TEST-3 33133	1	101	U	800921	0900	800921	01	0030	N	LIBRARY	000000	000000	103004	801018	01	801018	01	G=	F=B	S=B	2	

FIGURE 3-27. COB Actions List (Master)

PREPARED 80 OCT 18 1:31 0D70FC H80326	USAF TAPE LIBRARY COB ACTIONS LIST SKELETON FILE ACTIONS	AS OF 80 OCT 18 PCN 50105-702	LAST ACTS	NACTS
COROL-TEST-222222A100 999D103004	CURRENT RECORD INFORMATION	G= F= S=B	1	
COROL-TEST-3333331101 030D103004		G= F= S=B	1	
COROL-TEST-4444441101 030D103004		G= F= S=B	1	
COROL-TEST-8888881101 030D103004		G= F= S=B	1	
COROL-TEST-A22334A100 999D103004		G= F= S=B	1	
COROL-TEST-F512112200 003C102003		G= F= S=B	1	
COROL-TEST-0112232200 003C102003		G= F=B S=B	2	
COROL-TEST-5991112201 030D103004		G= F= S=B	1	
COROL-TEST-X112231101 030D103004		G= F= S=B	1	
COROL-TEST-X77522201 030D103004		G= F= S=B	1	
COROL-TEST-Y555942201 030D103004		G= F= S=B	1	

FIGURE 3-28. COB Actions List (Skeleton)

AS CF 30 OCT 19 FCN 50105-702

CURRENT RECORD INFORMATION

CURRENT RECORD INFORMATION				LAST ACTS		#ACTS	
A100PRD	KEN MANNIN TEST	5566	5667	RIC JONES	1511	000	G= F=B S=B 2
1101PRD	BETTY WHITE TEST	7788	8866	BILLY C	1510	000	G= F=B S=B 2
2201PRD	JACK KNIGHT TEST	4433	4423	SUE JONES	1510	000	G= F=B S=B 2
2202PRC	JOHN FREN TEST	6788	8877	MAY WEST	1411	000	G= F=B S=B 2

FIGURE 3-29. COB Actions List (Monitor)

END PAGE 9

PREPARED 50 OCT 19 11:43  
 207000 480326

USAF TAPE LIBRARY COB ACTIONS LIST  
 AUTOMATIC SCRATCH LIST  
 SKELETON REMOVAL GENERATED

AS OF 80 OCT 18 PCN SQ105-702

REEL NUM	FILE-ID	FILE CTL	SF OU	DATE CRETD	TIME CRIC	DATE S	LOCATION	REMARKS	LIB OPT6	COMMENTS
10054	COBOL-TEST-0	11223	1	800915	1200	800915	N LIBRARY	TEST		
90038	COBOL-TEST-0	11223	1	800915	1200	800915	N LIBRARY	TEST		
90018	COBOL-TEST-0	11223	1	800915	1200	800915	N LIBRARY	TEST		
90032	COBOL-TEST-0	11223	1	800915	1200	800915	N LIBRARY	TEST		
90046	COBOL-TEST-0	11223	1	800915	1200	800915	N LIBRARY	TEST		

\*\*\* LAST REEL/SET \*\*\*

END PAGE 5

FIGURE 3-30. COB Skeleton Removal

3-64

AFM 171-6/2 Vol II

14 November 1988

PREPARED 80 OCT 18 13:31  
0070F0 H90326

USAF TAPE LIBRARY COB ACTIONS LIST  
UPDATE ERRORS

AS OF 80 OCT 18 PCN SG105-702

\*\*\* - NO UPDATE ERRORS - \*\*\*

FIGURE 3-31. COB Update Errors List

PAGE 6

AS OF 20 OCT 21 PCN SG105-752

SAFE TAPE CONTROL LOG  
FOR MASTER COPIESPREPARED 20 OCT 21 11:04  
0075FC H60326RESERVED

CARD-INFO/SECTION	REFL-NUM	FILE-ID	FILE-CTL	DATE-CRETD	TIME-CRETD	SEQU	REMARKS
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----

CARD-INFO/SECTION	REFL-NUM	FILE-ID	FILE-CTL	DATE-CRETD	TIME-CRETD	SEQU	REMARKS
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----
WASTED (U)	----	----	----	----	----	----	----

PAGE --- OF ---

FIGURE 3-32. Tape Control Log List



3-66

AFM 171-652 Vol II

14 November 1988

UNCLASSIFIED

UNCLASSIFIED

DATE 10-18-80

PREPARED BY OCT 18 12:55

QD80FC M80326

PCNS0105-801

USAF TAPE LIBRARY BACKUP TRANSACTION LIST

SKELETON FILE TRANSACTION CARDS

AS OF 80 OCT 18 PCNS0105-802

SKELADD COBOL-TEST-R9611022010030D103004	00000060
SKELADD COBOL-TEST-X7788622010030D103004	00000070
SKELADD COBOL-TEST-Y5599422010030D103004	00000080
SKELADD COBOL-TEST-A22334A1000999D103004	00000090
SKELADD COBOL-TEST-2222241000999D103004	00000100
SKELADD COBOL-TEST-7777722000003C102003	00000110
SKELADD COBOL-TEST-F5121122000003C102003	00000120
SKELADD COBOL-TEST-33133311010030D103004	00000130
SKELADD COBOL-TEST-X1122311010030D103004	00000140
SKELADD COBOL-TEST-44444411010030D103004	00000150
SKELADD COBOL-TEST-89988811010030D103004	00000160
SKELADD COBOL-TEST-89988811010030D103004	00000170

PAGE 1

FIGURE 3-33. Backup Transaction List (Skeleton)

## U N C L A S S I F I E D

## U N C L A S S I F I E D

DATE 10-18-80  
 PREPARED 20 OCT 18 12:55  
 0080F WS3326

USAF TAPE LIBRARY BACKUP TRANSACTION LIST AS OF 20 OCT 18 PCNS0105-R02  
 MONITOR FILE TRANSACTION CARDS

MONIAD012201PRD JACK KNIGHT	4433	1423	SUE JONES	1510	00000190
MONIAD022201 TEST					00000190
MONIAD01A100PRD KEN LANGIN	5566	4567	RIC JONES	1511	00000200
MONIAD022A100 TEST					00000210
MONIAD012202PRD JOHN FREN	6788	4877	MAY WEST	1411	00000220
MONIAD022202 TEST					00000230
MONIAD011101PRD BETTY WHITE	7788	4866	BILLY C	1510	00000240
MONIAD021101 TEST					00000250

PAGE 2

FIGURE 3-34. Backup Transaction List (Monitor)

U N C L A S S I F I E D

DATE 10-19-90

PREPARED 80 OCT 19 12:55  
QDR0FO H80326USAF TAPE LIBRARY BACKUP TRANSACTION LIST  
MASTER FILE TRANSACTION CARDS

AS OF 80 OCT 18 PCNSQ105-802

WASTUPD 0001C0B0L-TEST-4444444800923090001TEST	00000320
WASTUPD 0001AC0B0L-TEST-4444444800923090001TEST	00000330
WASTUPD 00062C0B0L-TEST-4444444800913090001TEST	00000340
WASTUPD 00075C0B0L-TEST-4444444800922090001TEST	00000350
WASTUPD 00088C0B0L-TEST-4444444800921090001TEST	00000360
WASTUPD 00101C0B0L-TEST-4444444800912090001TEST	00000370
WASTUPD 00114C0B0L-TEST-4444444800922090001TEST	00000380
WASTUPD 00151C0B0L-TEST-4444444800930133701TEST	00000390
WASTUPD 00164C0B0L-TEST-4444444800911120001TEST	00000400
WASTUPD 01057C0B0L-TEST-4444444800921110001TEST	00000410
WASTUPD 02005C0B0L-TEST-3333333800922120001TEST	00000420
WASTUPD 02053C0B0L-TEST-7777777800915120101TEST	00000430
WASTUPD 03001C0B0L-TEST-A22334800901110001TEST	00000440
WASTUPD 03014C0B0L-TEST-4444444800923090001TEST	00000450
WASTUPD 03065C0B0L-TEST-4444444800923090001TEST	00000460
WASTUPD 10015C0B0L-TEST-4444444800930133701TEST	00000260
WASTUPD 10051C0B0L-TEST-4444444800911120001TEST	00000270
WASTUPD 10052C0B0L-TEST-4444444800921110001TEST	00000280
WASTUPD 10053C0B0L-TEST-3333333800922120001TEST	00000290
WASTUPD 10054C0B0L-TEST-7777777800915120101TEST	00000300
WASTUPD 10055C0B0L-TEST-A22334800901110001TEST	00000310
WASTUPD 60011C0B0L-TEST-4444444800913090001TEST	00000470
WASTUPD 60059C0B0L-TEST-4444444800922090001TEST	00000480
WASTUPD 99007C0B0L-TEST-4444444800921090001TEST	00000490
WASTUPD 99055C0B0L-TEST-4444444800912090001TEST	00000500

PAGE 3

FIGURE 3-35. Backup Transaction List (Master)

U N C L A S S I F I E D

USAF WORKLOAD FORECAST LIST  
FROM JAN 01 TO DEC 31

AS OF 80 JUL 11 PCN S4105-902  
TIMES SCHEDULED

DATE	07-11-80	PREPARED	90 JUL 11 14:00	COMMAND	USAF WORKLOAD FORECAST LIST	AS OF 80 JUL 11	PCN S4105-902
\$	SNUMB	TS104	TS104	TS104	TS104	00004001	046
\$	IDENT	FP104A01	FP104A01	FP104A01	FP104A01	00004002	
\$	USERID	FOSDMS13	FOSDMS13	FOSDMS13	FOSDMS13	00004003	
\$	SNUMB	WJ003	WJ003	WJ003	WJ003	00006001	001
\$	IDENT	FP104A01	FP104A01	FP104A01	FP104A01	00006002	
\$	USERID	FOSDMS13	FOSDMS13	FOSDMS13	FOSDMS13	00006003	
\$	SNUMB	NRJ01	NRJ01	NRJ01	NRJ01	00007001	184
\$	IDENT	FP104A01	FP104A01	FP104A01	FP104A01	00007002	
\$	USERID	FOSDMS13	FOSDMS13	FOSDMS13	FOSDMS13	00007003	
\$	SNUMB	NRJ02	NRJ02	NRJ02	NRJ02	00008001	003
\$	IDENT	FP104A01	FP104A01	FP104A01	FP104A01	00008002	
\$	USERID	FOSDMS13	FOSDMS13	FOSDMS13	FOSDMS13	00008003	
\$	SNUMB	NRJ03	NRJ03	NRJ03	NRJ03	00009001	046
\$	IDENT	FP104A01	FP104A01	FP104A01	FP104A01	00009002	
\$	USERID	FOSDMS13	FOSDMS13	FOSDMS13	FOSDMS13	00009003	
\$	SNUMB	NRJ04	NRJ04	NRJ04	NRJ04	00010001	006
\$	IDENT	FP104A01	FP104A01	FP104A01	FP104A01	00010002	
\$	USERID	FOSDMS13	FOSDMS13	FOSDMS13	FOSDMS13	00010003	
\$	SNUMB	NRJ05	NRJ05	NRJ05	NRJ05	00011001	004
\$	IDENT	FP104A01	FP104A01	FP104A01	FP104A01	00011002	
\$	USERID	FOSDMS13	FOSDMS13	FOSDMS13	FOSDMS13	00011003	
\$	SNUMB	MANGN	MANGN	MANGN	MANGN	00023001	020
\$	IDENT	FP104A01	FP104A01	FP104A01	FP104A01	00023002	
\$	USERID	FOSDMS13	FOSDMS13	FOSDMS13	FOSDMS13	00023003	
\$	SNUMB	MANGN	MANGN	MANGN	MANGN	00026001	020
\$	IDENT	FP104A01	FP104A01	FP104A01	FP104A01	00026002	
\$	USERID	FOSDMS13	FOSDMS13	FOSDMS13	FOSDMS13	00026003	

END PAGE 1

FIGURE 3-36. Forecast List

```

PREPARED 80 OCT 21 13:27
0090FN H80326

USAF WORKLOAD SELECTED JCL LIST
FOR OCT 21

AS OF 80 OCT 21 PCN 50105-903
REMARKS

***** SCRATCH TAPE NEEDED *****
***** NO REELS FOUND FOR THIS JCL-RECORD *****
***** NO REELS FOUND FOR THIS JCL-RECORD *****
***** NO REELS FOUND FOR THIS JCL-RECORD *****

SNUMS TST02
IDENT F104AC1 /31/JOHNSON /C/DCPRDC
USERID F05MS1$ /D.M
TAPE F1.X1D...COROL-TEST-1
TAPE F2.X2D...99999...GMAP-TEST-1
TAPE F3.X3D...99999...GMAP-TEST-2
UTILITY
FUT11 F1.F2.RWD/F1.F2/.COPY/2R/.SKIP/1R/.COPY/SR/
PRMFI F1.R4S.F05MS1/WCTEST
FILE F2.WIS
TAPE F4.X4D...99999...ON-LINETEST2
CONVER
FILE IN.WIR
INPUT NMEDIA
PRINT DT
PCNPS0104AC1 TEST-CASE-WDD-IIC15WUNCN1A1WJE01021022023024025026000002022
PCNR12345678901234TEST-CASE-WDD-IIOLOAYOUNCN111WJ1 102103101 00002023
PCNR12345ACDE TEST-CASE-WDD-IIOLOAYOUNCN111WJ1 103104105106107108000002024
PCNR12345 TEST-CASE-WDD-IIOLOAYOUNCN111WJ1 103104105106107108000002025
ENDJOB 00002026

SCRATCHES NEEDED 1
JCL PACKAGE VERIFIED BY -----

```

SNUMS TST02

PAGE 2

FIGURE 3-37. Selected JCL List

009100 H00326

FOR OCT 21

REMARKS

FILE-CTL

FILE-ID

REQUIRES

LUD

MEDIA

ACTIVITY

## SPECIAL INSTRUCTIONS

00001001  
00001002  
00001003

## SPECIAL INSTRUCTIONS

00002001  
00002002  
00002003

## SPECIAL INSTRUCTIONS

00003001  
00003002  
00003003

## SPECIAL INSTRUCTIONS

00004001  
00004002  
00004003

PAGE 1

FIGURE 3-38. IMCV Build List

3-72

AFM 171-692 Vol II

14 November 1981

PREPARED 30 OCT 21 11:39 0091FO H80326	USAF WORKLOAD PULL TAPE LIST FOR OCT 21	AS OF 30 OCT 21	PCN SC105-913					
REEL #	FILE-ID AND CONTROL	DATE	CLASSIFICATION	REEL #	FILE-ID AND CONTROL	DATE	CLASSIFICATION	USE
TOTAL TAPES REQUIRED 0								
2								

END PAGE 1

FIGURE 3-39. Pull Tape List

CD91FC MH0326

FUR OCT 21

NUMBER	TITLE	MEDIA	SEC	PKGS	SNUMB	CPR	RECEIVED BY
PCN SPI04A*CI	TEST-CASE-M-D-II	CARD	UNC	00001	*JE	101	-----
PCN ABCDE12345	TEST-CASE-M-D-II	CARD	UNC	00001	*JE	101	-----
PCN ABCDE	TEST-CASE-M-D-II	CARD	UNC	00001	*JE	102	-----
PCN SPI04A*CI	TEST-CASE-M-D-II	CARD	UNC	00002	*JE01	021	-----
PCN SPI04A*CI	TEST-CASE-M-D-II	CARD	UNC	00003	*JE02	021	-----
PCN SPI04A*CI	TEST-CASE-M-D-II	CARD	UNC	00004	*JE03	021	-----
PCN SPI04A*CI	TEST-CASE-M-D-II	CARD	UNC	00005	*JE05	021	-----
PCN SPI04A*CI	TEST-CASE-M-D-II	CARD	UNC	00006	*JE06	021	-----
PCN SPI04A CI	TEST-CASE-M-D-II	CARD	UNC	00007	NRJ01	021	-----
PCN SPI04A*CI	TEST-CASE-M-D-II	CARD	UNC	00008	NRJ02	021	-----
PCN SPI04A*CI	TEST-CASE-M-D-II	CARD	UNC	00009	NRJ03	021	-----
PCN SPI04A*CI	TEST-CASE-M-D-II	CARD	UNC	00010	NRJ04	021	-----

END PAGE 1

FIGURE 3-40. Input Register



PREPARED 80 OCT 21 11:39  
 3D91F0 H80326

USAF WORKLOAD OUTPUT REGISTER  
 FOR OCT 21

AS OF 80 OCT 21 PCN SC105-915

NUMBER	TITLE	MEDIA	SEC	PKG	SNUMB	OPR	CYS	RECEIVED BY
PCS 12345678901234	TEST-CASE-MID-11	LIST	UNC	00002	WJ1	102	04	-----
PCS 12345ABCDE	TEST-CASE-MID-11	LIST	UNC	00002	WJ1	103	04	-----
PCS 12345	TEST-CASE-MID-11	LIST	UNC	00002	WJ1	103	04	-----
PCN PJKLWNP	TEST-CASE-MID-11	CARD	UNC	00003	WJEC3	111	01	-----
PCN QRST	TEST-CASE-MID-11	CARD	UNC	00007	NRJ01	111	01	-----

END PAGE 1

FIGURE 3-41. Output Register

14 November 1980

3-75

IDENT	FILE-ID	FILE-CTL	LABELS	ENUMB	ERROR CONDITIONS
LA-T	EST-CASE4	20002	01	J0312	*** IDENT NOT #LAB
LA-T	EST-CASE5	10001	05	K0012	*** IDENT NOT #LAB
LA-T	EST-CASE6	AD100	02	M1022	*** IDENT NOT #LAB
LA-T	EST-CASE7	DE010	03	D0007	*** IDENT NOT #LAB

G093F/ MS0326

END PAGE 1

FIGURE 3-42. Tape Label Error List

XXXXXXXXXXXXX XXXXXXXXXXXXX XXXXXXXXXXXXX XXXXXXXXXXXXX XXXXXXXXXXXXX 999 XXXX XXXXXXXXXXXXX	XXXXX XXXXX XXXXX XXXXX XXXXX 999 XXXX XXXXX	XXXXXXXXXXXXX XXXXXXXXXXXXX XXXXXXXXXXXXX XXXXXXXXXXXXX XXXXXXXXXXXXX 999 XXXX XXXXXXXXXXXXX	XXXXX XXXXX XXXXX XXXXX XXXXX 999 XXXX XXXXX
COBOL-TEST-2 SYS MON 100	22222 D0007	COBOL-TEST-2 SYS MON 100	22222 D0007
999 DAYS ****UNCLASSIFIED****	999 DAYS ****UNCLASSIFIED****	999 DAYS ****UNCLASSIFIED****	999 DAYS ****UNCLASSIFIED****
COBOL-TEST-3 SYS MON 101	33333 M1022	COBOL-TEST-3 SYS MON 101	33333 M1022
030 DAYS ****UNCLASSIFIED****	030 DAYS ****UNCLASSIFIED****	030 DAYS ****UNCLASSIFIED****	030 DAYS ****UNCLASSIFIED****
COBOL-TEST-4 SYS MON 101	44444 J0312	COBOL-TEST-4 SYS MON 101	44444 J0312
030 DAYS ****UNCLASSIFIED****	030 DAYS ****UNCLASSIFIED****	030 DAYS ****UNCLASSIFIED****	030 DAYS ****UNCLASSIFIED****

SNUAL = 59ACF. ACTIVITY = 01. REPORT CODE = 01. RECORD COUNT = 000009

FIGURE 3-43. Tape Labels

END PAGE 1

FIGURE 3-44. SNUMB-Package Number X-REF List

PCN	TITLE	I/O	MEDIA	CYS	FOR4S	FREQUENCY	SEC	AUTDD	D-DAY	MIN	CMD	SNUMB	P-OPR	RELATED	OPRS
PCN 50104A993	MANGIN-TESTCASE3	0	FICH	03	YES	MONTHLY	SEC	NO	C2	NO	KM	KJMO1	101		
PCN 50104A993	MANGIN-TESTCASE3	0	FICH	03	YES	MONTHLY	SEC	NO	C2	NO	KM	KJMO1	101		
PCN 50104A994	MANGIN-TESTCASE4	0	XROX	4Y			OPN	NO	C2	NO	KM	KJMO1	101		
PCN 50104A994	MANGIN-TESTCASE4	0	XROX	4Y			OPN	NO	C2	NO	KM	KJMO1	101		
PCN 50104A995	MANGIN-TESTCASE7	1	DPAK	01	NO	SEMIANUAL	SID	NO	C2	NO	KM	KJMO1	101		
PCN 50104A995	MANGIN-TESTCASE7	1	DPAK	01	NO	SEMIANUAL	SID	NO	C2	NO	KM	KJMO1	101		
PCN 50104A995	MANGIN-TESTCASE6	1	TAPE	02	NO	ANNUAL	OFF	NO	C2	NO	KM	KJMO1	101		
PCN 50104A995	MANGIN-TESTCASE6	1	TAPE	02	NO	ANNUAL	OFF	NO	C2	NO	KM	KJMO1	101		
PCN 50104A997	MANGIN-TESTCASE7	1	ADTP	03	NO	BI-MNTHLY	UNC	YES	C2	YES	KM	KJMO1	101		
PCN 50104A997	MANGIN-TESTCASE7	1	ADTP	03	NO	BI-MNTHLY	UNC	YES	C2	YES	KM	KJMO1	101		
PCN 50104A998	MANGIN-TESTCASE8	1	ADCP	04	NO	AS-REQUED	UNC	YES	C2	YES	KM	KJMO1	101		
PCN 50104A998	MANGIN-TESTCASE8	1	ADCP	04	NO	AS-REQUED	UNC	YES	C2	YES	KM	KJMO1	101		
PCN 50104A999	TFST-CASE-MOD-11	0	CARD	01	NO	AS-REQUED	UNC	YES	C1	YES	1C	RZMO1	112		111
PCN 50104A999	TFST-CASE-MOD-11	0	LIST	04	YES	ANNUAL	UNC	NO	C1	NO	11	WJ1	103		104 105 106 107 108
PCN 50104A999	TFST-CASE-MOD-11	0	LIST	04	YES	SEMIANUAL	UNC	NO	0	NO	11	WJ1	103		104 105 106 107 108
PCN 50104A999	TFST-CASE-MOD-11	0	LIST	04	YES	QUARTERLY	UNC	NO	C3	NO	11	WJ1	102		103 101
PCN 50104A999	TFST-CASE-MOD-11	0	LIST	20	NO	WEEKLY	UNC	NO	0	NO	DC	42059	RDC		111
PCN 50104A999	TFST-CASE-MOD-11	0	LIST	20	NO	WEEKLY	UNC	NO	0	NO	DC	42059	RDC		111
PCN 50104A999	TFST-CASE-MOD-11	0	LIST	20	NO	WEEKLY	UNC	NO	0	NO	DC	42059	RDC		111

END PAGE 2

FIGURE 3-45. PCN/RCS Reference List

0095FC H90326

	TITLE	I/F	MEDIA	CYS	FORVS	FREQUENCY	SEC	AUTOD	D-DAY	MIN	CMD	CI PRIORITY		RELATED	OPRS
												SNUMS	P-OPR		
PCN ABCDE12345	TFST-CASE-MOD-II	I	CARD	01	NO	WEEKLY	UNC	YES	C1	YES	AA	WJE	101	102 103	
PCN CD123456	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT01	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT02	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT03	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT04	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT05	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT06	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT07	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT08	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT09	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT10	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT11	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT12	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT13	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT14	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT15	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT16	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT17	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT18	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT19	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT20	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT21	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT22	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT23	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT24	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT25	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT26	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT27	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT28	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT29	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN CT30	TFST-CASE-MOD-II	O	CARD	01	NO	DAILY	UNC	YES	C1	YES	IC	RZM05	112	111	
PCN SP104AVCI	TFST-CASE-MOD-II	I	CARD	15	YES	WEEKLY	UNC	YES	C1	NO	A1	WJE01	021	023 024 025 026	
PCN SP104AVCI	TFST-CASE-MOD-II	I	CARD	15	YES	WEEKLY	UNC	YES	C1	NO	A1	WJE02	021	022 023 024 025 026	
PCN SP104AVCI	TFST-CASE-MOD-II	I	CARD	15	YES	WEEKLY	UNC	YES	C1	NO	A1	WJE03	021	022 023 024 025 026	
PCN SP104AVCI	TFST-CASE-MOD-II	I	CARD	15	YES	WEEKLY	UNC	YES	C1	NO	A1	WJE04	021	022 023 024 025 026	
PCN SP104AVCI	TFST-CASE-MOD-II	I	CARD	15	YES	WEEKLY	UNC	YES	C1	NO	A1	NRJ01	021	022 023 024 025 026	
PCN SP104AVCI	TFST-CASE-MOD-II	I	CARD	15	YES	WEEKLY	UNC	YES	C1	NO	A1	NRJ02	021	022 023 024 025 026	
PCN SP104AVCI	TFST-CASE-MOD-II	I	CARD	15	YES	WEEKLY	UNC	YES	C1	NO	A1	NRJ03	021	022 023 024 025 026	
PCN SP104AVCI	TFST-CASE-MOD-II	I	CARD	15	YES	WEEKLY	UNC	YES	C1	NO	A1	NRJ04	021	022 023 024 025 026	
PCN UVWXY	TFST-CASE-MOD-II	O	CARD	01	NO	AS-REQU	UNC	YES	C1	YES	IC	RZM01	112	111	
RCS 12345	TFST-CASE-MOD-II	O	LIST	04	YES	ANNUAL	UNC	NO	C1	NO	11	WJ1	103	104 105 106 107 108	

PAGE 2

FIGURE 3-46. D-Day Precedence List

PREPARED 80 OCT 21 11:40  
 QD95FO H80326

USAF WORKLOAD OPR REFERENCE LIST

AS OF 80 OCT 21 PCN S0105-954

OPR	CM	OFFICE	PRIMARY CONTACT	P-PHONE	A-PHONE	ALTERNATE CONTACT AND/OR REMARKS
263	A1	SDVS-1	MR. W. SIMPSON	2794118	2794119	MR. J. ALLEN 2794119
264	A1	SDVS-2	CMS ELBERFELD	2754305	2794306	MSG JAUEN 2794305
265	A1	SDVS-3	MR. P. NOVAK	2794307	2794500	MR. J. DAWSON 279430
266	A1	SDVS-5	CMS WARD	2794305	2794306	TSG LOHMAN 2794306
270	A1	SDVS	MR. R. CORDES	2754305	2794306	CAPT CARPENTER 27943
271	A1	SDVS-9	MR. J. DAWSON	2754306	2794307	SGT SHINOGL 2794306

END PAGE 1

FIGURE 3-47. OPR Reference List

[illegible]

SNUMB TST02

FIGURE 3-48. JCL-Master List

PAGE 2



## SECTION 4. FILE QUERY PROCEDURES (ON-LINE)

4.1 SYSTEM QUERY CAPABILITIES (ON-LINE). The TLM Subsystem, via user supplied control elements, segregates users into three separate categories.

4.1.1 AUTHORIZED USERS. Any user with a TTY compatible device or 7705 VIP may utilize the First Line Input feature of TSS to display individual reel information or display the latest three reels of information in creation (date/time) sequence. Any user with a 7705 VIP may also query the TL-Master by various elements entered via the Master User Form.

4.1.2 REMOTE SITE LIBRARIAN. Optionally, up to 17 remote site librarians may be established. Any remote librarian has the capability to perform all user functions, flag scratch candidates, display skeleton/monitor data and spawn various printed reports pertaining to their site via the Report Form.

4.1.3 HOST SITE LIBRARIAN. One host site librarian must be established. The host site librarian has total data base updating capabilities in addition to the authorized user and remote site librarian functions. The host site librarian has the responsibility to collect, introduce and maintain all the control elements necessary for the successful implementation and execution of the TLM Subsystem.

NOTE: This section will be used to describe the procedures for the use of the On-Line Tape Library Management Subsystem. The use of this subsystem assumes that the user has a working knowledge of TSS and a 7705 VIP.

4.2 DATA BASE FORMAT. All TLM data base formats are maintained programmatically. Selected TLM data base information will be displayed/accessed via user terminals. Actual record formats for the data base files may be found in section 3.

4.3 QUERY PREPARATION. The On-Line TLM Subsystem was designed primarily for a host site librarian to maintain the TLM data base at a MAJCOM DPI via a 7705 VIP with "forms-mode-enabled". In order to provide the DPI with a more responsible subsystem, data base query capabilities were expanded to include TTY compatible devices (including a 786 VIP). Normal TSS log-on procedures are used to establish an interface with the subsystem on all but the 7705 VIP. To identify the terminal as a 7705 VIP the first line of the log-on entry must be `*$LOG24,TSS`.

NOTE: Log on response to the message "CLASSIFICATION OF YOUR OUTPUT?" must be the site specified DO NOT MARK classification code (e.g., DNM,ZZZ, etc) for all terminal types in order to allow proper forms display.

4.4 CONTROL INSTRUCTIONS. Figure 4-12 contains a summary of the On-Line

Input Commands. The following paragraphs will present detailed operating procedures for the On-Line TLM Subsystem when utilized by an authorized user, remote site librarian or the host site librarian. All the procedures assume that the user has completed all the normal log-on requirements and is at the "SYSTEM" level.

#### 4.4.1 AUTHORIZED USERS.

##### a. TTY Compatible Devices (includes 786 VIP).

(1) Display by Reel Number (PCN SQ105-108). To display information pertaining to a specific reel number, enter TLIB nnnnn where nnnnn is the requested five-position reel number. Requested information (figure 4-08) will be displayed followed by a return to the "SYSTEM" level.

(2) Display Latest FILE-ID (PCN SQ105-108). To display information pertaining to the latest three reel numbers of a specific FILE-ID (and optionally FILE-CTL/SITE-CODE), enter TLIB ffffffffffcccccs where "ffffffffffff" is the FILE-ID (must be 12 full characters), "cccc" is the five-position FILE-CTL and "s" is the one-position SITE-CODE. Requested information (figure 4-09) will be displayed followed by a return to the "SYSTEM" level.

b. 7705 VIP: The Master User Form (figure 4-07) is displayed by entering TLIB.

NOTE: The On-Line Subsystem allows all 7705 VIP users to TAB across or SPACE fill unused or partially filled form areas. When these fields are TABbed, the subsystem will insert the appropriate number of SPACE characters to allow proper internal data alignment.

(1) Display by Reel Number (PCN SQ105-107). To display information pertaining to a specific reel number, enter "D" in the FUNCTION field and the five-position reel number in the REEL-NUM field. The subsystem will display the data within the form areas and the CURSOR will be positioned in the FUNCTION field.

(2) Display Latest FILE-ID (PCN SQ105-107). To display information pertaining to the latest three reel numbers of a specific FILE-ID (and optionally FILE-CTL/SITE-CODE) enter "L" in the FUNCTION field, tab through the REEL-NUM field, enter the File-ID (left justified) in the FILE-ID field and optionally the five-position File-CTL and the Site Code in the FILE-CTL and SITE-CODE fields. Requested information (figure 4-09) will be displayed (see note).

(3) Query the TL-Master (PCN SQ105-107). To query the entire file for any field or combination of fields on the Master User Form (figure 4-07) excluding REEL-NUM and REMARKS, enter "Q" in the FUNCTION field, space fill or tab across all unwanted fields preceding the last used field. Requested information (figure 4-10) will be displayed followed by a record count (TOTAL - 0000000n) if EOF was reached (see note). If EOF was not reached, CONTINUE Y(ES) or N(O) [ ] will be

displayed. To continue the query, enter "Y" or to return to the Master User Form, enter "N".

NOTE: To return to the Master User Form following the display, enter "FORM" or enter "DONE" to exit the subsystem.

4.4.2 REMOTE SITE LIBRARIAN. The remote site librarian may perform all the authorized user functions described in paragraph 4.4.1. Additionally the remote site librarians may flag reel number records as a candidate for scratch, display skeleton and monitor records and "spawn" various report programs to produce listings pertaining only to their site.

a. Scratch Candidate Flag.

(1) The Master User Form (figure 4-07) is displayed by entering TLIB. Prior to specifying a reel number record as a scratch candidate, it must first be displayed (paragraph 4.4.1.b(1)).

(2) Enter "X" in the Function field. The subsystem will display the data within the form areas and the cursor will be positioned in the Function field.

NOTE: This function only causes the appropriate reel to be flagged on various listings as a scratch candidate. Only the host site librarian may scratch reels.

b. Display Skeleton/Monitor. Utilize the skeleton/monitor procedures described in paragraph 4.4.3 to display skeleton/monitor records.

c. Spawn Reports.

(1) The Master User Form (figure 4-07) is displayed by entering TLIB. The Report Form (figure 4-06) is displayed by entering "RFORM" in the FUNCTION field and the first four positions of the REEL-NUM field.

(2) Enter "R" in the FUNCTION field, the appropriate Site Code in the SITE-CODE field, space fill or tab across all unwanted reports fields and enter "X" for each desired report. All reports will be directed to the Destination-ID of the applicable remote site via SYSOUT. To format the report output to some other media, reference AFM 171-602, volume I, attachment 1.

(a) The screen will be cleared and the subsystem will request the IDENT card information by displaying IDENT?. Enter a valid IDENT card image (columns 16-80). If less than 10 characters or a space is entered, the QD system uses the tabled IDENT information on the TL-Master file (paragraph 3.2.1.1.2.).

(b) The screen again will be cleared and the SNUMB of the spawned job will be displayed. To return to the Master User Form, enter "FORM" or enter "DONE" to exit the subsystem.

4.4.3 HOST SITE LIBRARIAN. The host site librarian may perform all the

authorized user and remote site librarian functions described in paragraphs 4.4.1 and 4.4.2 with the exception of the flagging of reels as remote scratch candidates. This function would be useless for the host librarian as they have the capability to actually scratch any reel. Additionally the host site librarian has been provided with the capability to update all the TLM Subsystem data base files via various modes within the On-Line TLM Subsystem. Entry to these various modes may be established by entering:

TLIB 

NORMAL
SKELETON
MONITOR
CONTROL

 or TLIB

4.4.3.1 NORMAL MODE. The "NORMAL" mode results in the Master Librarian Form (figure 4-01) being displayed and offers the host site librarian the following features to maintain an accurate and up to date TL-Master file.

a. Change Reel Number Record (PCN SQ105-101). Prior to changing a reel number record, it must first be displayed (paragraph 4.4.1.b(1)). Then enter "C" in the FUNCTION field and applicable changes in any but the REEL-NUM, FILE-ID and FILE-CTL fields. The change function also provides an automatic off-site shipment and return capability. To ship a reel off-site, enter an "S" in the OFF-SITE field. The subsystem will compute the RETN-DATE from the value contained in the BACKUP field, enter the system date in DATE-SHIPD, a "Y" in the OFF-SITE field, and the off-site shipping location in the LOCATION field. Attempting to ship with an invalid BACKUP code will result in an error. To return an off-site reel to the library, enter an "N" in the OFF-SITE field. The subsystem will move "LIBRARY" to the LOCATION field and zeros to the DATE-SHIPD and RETN-DATE fields. The subsystem will display the changed data and the CURSOR will be positioned in the FUNCTION field and the off-site shipping location in the LOCATION field. All changed records will be printed by the COB Actions Program.

b. Scratch/Clean/Certify (PCN SQ105-105).

(1) Mass Scratch/Clean/Certify (PCN SQ105-105). To display the mass function form (figure 4-05) enter "MFORM" in the FUNCTION field and the first four positions of the REEL-NUM field of the Master Librarian Form. To scratch, enter "S" in the FUNCTION field; to clean, enter "K" in the FUNCTION field; to certify, enter "T" in the FUNCTION field; to scratch and clean, enter "Y" in the FUNCTION field; to certify and clean, enter "Z" in the FUNCTION field followed by up to 50 five-position reel numbers. If the entire form is filled, the appropriate action will be taken and the form areas cleared for subsequent entries. If less than 50 reel numbers are entered, the appropriate action will be taken and the Master Librarian Form will be displayed.

(2) Single Scratch/Certify (PCN SQ105-101). An alternate method of scratching/certifying single reel number records via the Master Librarian Form is available for the user who wishes to review the record contents. Prior to scratching/certifying a reel number record, it must first be displayed (paragraph 4.4.1.b(1)). Then enter "C" in the FUNCTION field and "SCRATCH", "CERTIFY", "SCR/CLN" or "CER/CLN", in the FILE-ID field. The subsystem will display the data (see note 2) and the CURSOR will be positioned in the FUNCTION field.

(3) Last reel scratch/certify (PCN SQ105-101): Prior to scratching/certifying a reel number record with the last reel flag set, it must first be displayed (paragraph 4.4.1.b(1)). Then enter "C" in the function field and "SCRATCH LAST" or "CERTIFY LAST" in the File-ID field. The subsystem will display the data (see note 2) and the cursor will be positioned in the FUNCTION field.

NOTE 1: All scratched, cleaned or certified records will be printed by the COB Actions Program.

NOTE 2: Each function will result in the following fields being set to:

Scratch - "SCRATCH" for FILE-ID: Zero for FILE-CTL, SITE-CODE, SYSMON, TIME-CRETD, BACK-UP, SEQ, RET-REM, AS-OF-DATE, REMARKS; "LIBRARY" for LOCATION; "N" for OFF-SITE and current date for DATE-CRETD.

Clean - current date for DATE-CLEND and add 1 to NUM-CLENS.

Certify - same as scratch, plus; "U" for SECURITY; current date for DATE-CERTD and add 1 to NUM-CERTS.

c. Off-site/On-site (PCN SQ105-105). To display the mass function form (figure 4-05) enter "MFORM" in the FUNCTION field and the first four positions of the REEL-NUM field of the master librarian form.

(1) For mass off-site shipping, enter "F" in the FUNCTION field followed by up to 50 five-position reel numbers.

(2) For mass return on-site shipping, enter "N" in the FUNCTION field followed by up to 50 five-position reel numbers.

NOTE: Reel number record data changes for these mass functions are described in paragraph 4.4.3.1a.

d. Reel Update (PCN SQ105-104). To display the Update Form (figure 4-04), enter "UPDATE" in the FUNCTION and REEL-NUM fields of the Master Librarian Form. To update, enter "U" in the FUNCTION field and the appropriate information for up to eight updated reels. Entering "\*\*\*\*\*" in the DATE-CRETD field of a reel will result in the DATE-CRETD being the same as SYST-DATE. If the REMARKS/ERRORS field is not equal spaces or tab across, this value will be used to update in lieu of the Remarks field in the appropriate Skeleton record. The update information will be edited and the Skeleton file will be scanned for a match

prior to updating. Following the display of the updated reels, the CURSOR will be positioned in the FUNCTION field, the CLEAR key may be depressed and subsequent data entered. To return to the Master Librarian Form or exit the subsystem, depress the CONTROL and CLEAR keys simultaneously and enter "NORMAL" or "DONE". All updated records will be printed by the COB Actions Program.

e. Generate Reports (PCN SQL05-106). The host site librarian may spawn report programs as described in paragraph 4.4.2. However, the host site librarian may enter any valid site code in the SITE-CODE field to produce reports for one site only; or enter "X" in the SITE-CODE field to produce reports for all sites. Optionally, the host site librarian may direct reports to a remote site by entering a valid destination-ID for the applicable remote site in the DEST-ID field.

4.4.3.2 SKELETON MODE (PCN SQL05-102). The "SKELETON" mode results in the Skeleton Form (figure 4-02) being displayed and offers the host site librarian the following features to maintain an accurate and up-to-date Skeleton file.

NOTE 1: The "SKELETON" mode may also be entered from the "NORMAL" mode by entering "SKELETON" in the FUNCTION, REEL-NUM and the first two positions of the FILE-ID fields in the Master Librarian Form.

a. Display. To display an existing Skeleton record, enter "D" in the FUNCTION field, the FILE-ID (left-justified, space filled) in the FILE-ID field, the five-position FILE-CTL and the Site Code in the FILE-CTL and SITE-CODE fields. The subsystem will display the data within the form areas and position the CURSOR in the FUNCTION field.

b. Add. To add a new Skeleton record, enter "A" in the FUNCTION field and complete the remaining fields. The added data will be displayed and the CURSOR will be positioned in the FUNCTION field when the add is complete.

c. Change. To change an existing Skeleton record, it must first be displayed. Then enter "C" in the FUNCTION field and change any field except FILE-ID and FILE-CTL. The changed data will be displayed and the CURSOR will be positioned in the FUNCTION field when the change is complete.

d. Remove. To remove an existing Skeleton record, enter "R" in the FUNCTION field, the FILE-ID, FILE-CTL and SITE-CODE in their respective fields. The form areas will be space filled and displayed and the CURSOR will be positioned in the FUNCTION field when the remove is complete.

NOTE 2: All Add, Change and Remove actions will result in the record being printed by the COB Actions program. All reel number records with the same File-ID and File Control will also be selectively modified or scratched depending on the function.

NOTE 3: To return to the Master Librarian Form or exit the subsystem, depress the CONTROL and CLEAR keys simultaneously and enter "NORMAL" or "DONE".

4.4.3.3 MONITOR MODE (PCN SQL05-103). The "MONITOR" mode results in the Monitor Form (figure 4-03) being displayed and offers the host site librarian the following features to maintain an accurate and up-to-date Monitor file.

NOTE 1: The "MONITOR" mode may also be entered from the "NORMAL" mode by entering "MONITOR" in the FUNCTION, REEL-NUM and the first position of the FILE-ID field on the Master Librarian Form.

a. Display. To display an existing Monitor record, enter "D" in the FUNCTION field, the Site Code in the SITE-CODE field, and the Monitor number in the SYS-MON field. The subsystem will display the data within the form areas and position the CURSOR in the FUNCTION field.

b. Add. To add a new Monitor record, enter "A" in the FUNCTION field and complete the remaining fields. The added data will be displayed and the CURSOR will be positioned in the FUNCTION field when the add is complete.

c. Change. To change an existing Monitor record, it must first be displayed. Then enter "C" in the FUNCTION field and change any field except SITE-CODE and SYS-MON. The changed data will be displayed and the CURSOR will be positioned in the FUNCTION field.

d. Remove. To remove an existing Monitor record, enter "R" in the FUNCTION field, the Site Code in the SITE-CODE field, and the Monitor number in the SYS-MON field. The form areas will be space filled and displayed and the CURSOR will be positioned in the FUNCTION field when the remove is complete.

NOTE 2: All Add, Change and Remove actions will result in the record being printed by the COB Actions.

NOTE 3: To return to the Master Librarian Form or exit the subsystem, depress the CONTROL and CLEAR keys simultaneously and enter "NORMAL" or "DONE".

4.4.3.4 CONTROL MODE (PCN SQL05-109). The "CONTROL" mode offers the host site librarian an efficient method of reviewing or modifying selected control elements. The "CONTROL" mode offers only modification capabilities; i.e., no new sites may be added or existing sites removed.

a. Password Validation. Prior to the Control Form (figure 4-11) being displayed, a password validation procedure is executed. The subsystem displays PASSWORD and the host site librarian responds by entering the current password assigned. If the password entered does not match the password in the host position in the control record, an error message will be displayed and the password requested again. If the



correct password has not been entered by the fourth try, control returns to the "SYSTEM" level.

b. Control Form. The Control Form is displayed within the form areas and the CURSOR will be positioned in the FUNCTION field. Enter "1" in this field and the control elements for the first nine sites will be displayed. Enter "2" and the control elements for the last nine sites will be displayed. The host site librarian then makes any required modifications by entering "C" and tabbing to the field to be changed. All fields may be changed; however, the HEADING, USERID, or PASSWD fields may not be blanked out. To return to the "SYSTEM" level following a review or modification of the displayed control elements, enter "DONE". To display a blank form, enter "NORMAL".

NOTE: The "CONTROL" mode provides an automatic function to "open" the TLM control gate left "shut" by a system or program failure (paragraph 2.6.1.1). Care should be taken to insure no batch TLM update functions are being accomplished during any "CONTROL" mode execution.

4.5 ERROR MESSAGE. Unless explicitly stated all error messages displayed on a TTY compatible device will be preceded by "\*\*\* ERROR". When an error is displayed on a 7705 VIP, the word "ERROR" will blink. Error messages will be removed from the screen of a 7705 VIP when a subsequent function is successfully completed.

4.5.1 COMMON ERROR MESSAGES. The following errors will be displayed on two or more forms and/or TTY compatible devices:

NO MATCH - the requested elements could  
not be found in the data base.

INVALID TTY REQUEST - a request other than  
Display by Reel Number or Display  
Latest File-ID was received  
from a TTY compatible device.

INVALID FUNCTION CODE - either an invalid  
character was entered in  
the FUNCTION field or a  
restricted function was  
entered by an authorized user  
or remote site librarian.

INVALID SITE CODE - self-explanatory.

NO SELECTION CRITERIA - insufficient information  
was entered to perform a specific  
function.

FILE BUSY - TRY LATER - one of the TLM batch  
programs is currently writing  
to the data base. This function  
cannot be completed until the



batch program releases the data  
base file (paragraph 2.6.1.1).

4.5.2 QUERY ERROR MESSAGE (PCN SQ105-107).

INVALID QUERY - authorized users and remote  
site librarian cannot QUERY  
using the SECURITY field with  
other than "U".

4.5.3 NORMAL MODE ERROR MESSAGES (HOST SITE LIBRARIAN).

a. Change Reel Number Record (PCN SQ105-101). All the following are  
self-explanatory messages resulting from data editing. No change was  
accomplished.

- (1) REEL-NUM CHG ILLEGAL
- (2) SEC DOWNGRADE ILLEGAL
- (3) INVALID REEL NUMBER
- (4) INVALID SECURITY
- (5) INVALID DATE-CRETD
- (6) INVALID TIME-CRETD
- (7) INVALID AS-OF-DATE
- (8) INVALID SEQUENCE
- (9) INVALID RET-REM
- (10) INVALID OFF-SITE
- (11) INVALID DATE-SHIPD
- (12) INVALID RETN-DATE
- (13) INVALID BACKUP
- (14) INVALID DATE-CLEND
- (15) INVALID NUM-CLENS
- (16) INVALID DATE-CERTD
- (17) INVALID NUM-CERTS
- (18) INVALID SYS-MON
- (19) nnnnn OFF-SITE

(20) LAST REEL/SET

(21) F-ID/CONTROL CHG ILLEGAL

b. Scratch/Clean/Certify Error Messages (PCN S0105-105).

nnnnn INV REEL NUMBER - this is an edit error only.  
No function was performed.

nnnnn OFF-SITE - reel nnnnn is designated  
as off site. The requested  
function has been performed  
on all preceding reel numbers.

c. Reel Update Error Message (PCN S0105-104). The following self-explanatory messages are displayed in the REMARKS/ERRORS field beside the applicable update entry that is in error. All update entries with spaces in the REMARKS/ERRORS field were successfully completed.

NO SKELETON

NOT SCR STATUS

INV REEL NUMBER

INV CREATE DATE

INV TIME-CRETD

INV SEQUENCE

4.5.4 SKELETON/MONITOR MODE ERROR MESSAGES (PCN S0105-102 OR PCN S0105-103).

INVALID SYS-MON - the Monitor number must be numeric

DUPLICATE - the Skeleton or Monitor record  
to be added already exists.

NO FILE SPACE - the Skeleton or Monitor file is  
full. Discontinue and execute  
QD05FO to assign more space to  
the appropriate data base file.

INVALID SECURITY - (Skeleton only) - self-explanatory.

INVALID BACKUP - (Skeleton only) - self-explanatory.

INVALID RETENTION - (Skeleton only) - the 1st through 3rd  
positions must be numeric while the 4th  
position must be D(ays) or C(ycles).

4.5.5 CONTROL MOLE ERROR MESSAGES (PCN SQ105-109).

XXXXXXXXXXXX INV PASSWORD - self-explanatory

INVALID CHANGE - self-explanatory

USAF TAPE LIBRARY MASTER LIBRARIAN FORM		H80326 PCN SQ105-101	
FUNCTION	1	SITE	HOST
REEL-NUM	(J2059)	FILE-ID	(COBOL-TESS-Y)
SITE-CODE	(1)	SYS-MON	(100)
DATE-CRETD	(800610)	TIME-CRETD	(2100)
SEQUENCE	(01)	PET-PRM	( 909D)
LOCATION	(LIBRARY)	DATE-SHIPD	(000000)
BACK-UP	(103004)	DATE-CLEND	(800605)
DATE-CRETD	(800605)	MIN-CEPTS	(01)
REMARKS	(TEST)		

FIGURE 4-91. Master Librarian Form

USAF TAPE LIBRARY SKELETON FORM		H0326 PCN SQ105-102	
FUNCTION ( )		SITE HOST	
FILE-ID (COBOL-TESS-Y)		FILE-CTL (55894)	SITE-CODE (1)
SYS-MON (100)		SECURITY (0)	RETENTION (9990)
BACK-UP (103004)		LIB-OPT3 ( )	
REMARKS (			

FIGURE 4-22. Skeleton Form

```

USAF TAPE LIBRARY MONITOR FORM
FUNCTION ( )
SITE CODE [4]
SITE HOST
SYS-NAME [320]
OFF-SYS [LOPP]
PRI-NAME [254] S00 1 PRI-PHON [4562] ALI-PHON [4563]
ALT-NAME [104] MILL 1 ADDRESS [LOPP] LIB-OP [4] TEST:
LT AGGS [ ]

```

FIGURE 4-03. Monitor Form

AF0326 DC.. 50105-104

USAF TAPE LIBRARY REEL UPDATE FORM

FUNCTION: [u] SYST-DATE: 800710

REEL#	FILE-IO	F-CTL	CPETO	HOIR	SEQ	DETA2XS/EN00PS
[01001]	[cobol-test-x]	[77386]	[800623]	[0800]	[01]	[test]
[02059]	[cobol-test-y]	[38995]	[*****]	[0910]	[01]	[+est]
[03022]	[cobol-test-1]	[99554]	[00701]	[1000]	[01]	[test]
[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]

FIGURE 4-04. Reel Update Form





USAF TAFE LIBRARY REPORT FORM 10326 22-50105-106

FUNCTION	[ ]	
SITE-CODE	[X]	DIRECT DESPO? [X]
MASTER/DEEL	[ ]	OFF-SITE SHIPPING [ ]
MASTER/FILE-ID	[X]	OFF-SITE STORAGE [ ]
MASTER/MONITOR	[ ]	999 RETENTION [X]
MASTER/FILE-CTL	[X]	SCPATCH CANDIDATE [X]
MASTER/DUAP	[ ]	CLFAM/CEPTIFY [ ]
SKELETON	[ ]	AVAILABLE SCPATCH [ ]
MONITOR	[ ]	DEST-ID [ ]

FIGURE 4-06. Report Request Form

USAF TAPE LIBRARY MASTER USER FORM		H-0326 DCY SQ195-107
FUNCTION	[ ]	SIT SLAVE
DEFL-100	[XCH11]	FILL-CTL [55394]
SITE-CODE	[1]	SECURITY [U]
DATE-CRETD	[300510]	AS-OF-DATE [300510]
SEQUENCE	[01]	OFF-SITE [A]
DE ARYS	[ ]	

FIGURE 4-07. Master User Form

```

USAF TAPE LIBRARY INQUIRY
REFL#  FILE-ID  F-CTL S/W00 S  CREATED  A00 SO DET 0
03055 COBOL-TEST-3 42111 300 1 800610 2125 800610 01 002C N

```

FIGURE 4-08. Inquiry (Display)

```

USAF TAPE LIBRARY INQUIRY
REFL#  FILE-ID  F-CTL S/W00 S  CREATED  A00 SO DET 0
10005 COBOL-TEST-0 55766 4 320 U 800610 2210 800610 01 003C N
10001 COBOL-TEST-0 55766 4 320 U 800610 2110 800610 01 002C N
10013 COBOL-TEST-0 55766 4 320 U 800610 2010 800610 01 001C N

```

FIGURE 4-09. Inquiry (Latest)

USAF	TAPE	LIBRARY	INQUIRY	FILE-ID	F-CTL	S/MON	S	CREATED	AOP	PCN	SC	RET	O
00114	COBOL-TEST-B	42111	B	300	U	800610	0200	800610	01	060D	N		
00115	COBOL-TEST-B	42111	B	300	U	800610	0900	800610	02	060D	Y		
00151	COBOL-TEST-E	42111	B	300	U	800610	2100	800610	01	060D	N		
03051	COBOL-TEST-B	42111	B	300	U	800512	2100	800512	01	001C	N		
03055	COBOL-TEST-B	42111	B	300	U	800610	2100	800610	01	002C	N		
03059	COBOL-TEST-B	42111	B	300	U	800610	2110	800610	01	003C	N		
A0001	COBOL-TEST-B	42111	B	300	U	800605	1100	800605	01	055D	N		
A0002	COBOL-TEST-B	42111	B	300	U	800610	2004	800610	01	060D	N		
A0003	COBOL-TEST-B	42111	B	300	U	800610	2104	800610	01	060D	N		
A0011	COBOL-TEST-B	42111	B	300	U	800517	1100	800517	01	036D	N		
TOTAL = 00000010													

FIGURE 4-10. Inquiry (Query)

USAF TAPE LIBRARY CONTROL MODIFICATION FOR 430326 PC. SQ100-100

FUNCTION [ ]

CODE	HEADING	USEDID/PASSWORD	PRIVIP	ALTVIP	DST-ID
1	[HOST ]	[TAPELIBP			
2	[PMT1 ]	[KORD-PROC			
3	[PMT2 ]	[FOPRDO5			
4	[PMT3 ]	[FOPRDO6			
5	[PMT4 ]	[FOPRDO7			
6	[PMT5 ]	[FOPRDO8			
7	[PMT6 ]	[FOPRDO9			
8	[PMT7 ]	[FOPRDO10			
9	[PMT8 ]	[FOPRDO11			
	AUTO-INHIBIT [N]	PROC-LIMITS [05]			
				SYSOUT-LIMITS [05]	

FIGURE 4-11. Control Modification Form

MODE/FUNCTION	INPUT COMMANDS	HL		RL		OU	
		T	V	T	V	T	V
FIRST LINE INPUT	(INQUIRY FORM)						
Display Reel	TLIB nnnnn	X	X	X	X	X	X
Display Latest	TLIB ffffffff (ccccc)	X	X	X	X	X	X
NORMAL	TLIB or TLIB NORMAL (MASTER FORMS)						
Display Reel	D nnnnn		X		X		X
Display Latest	L ffffffff (ccccc)						
Query	Q xx--xx--xx		X		X		X
Generate Reports	RFORM/R xx--xx--xx		X		X		
Flag Scr Candidate	D nnnnn/X		X		X		
Change	D nnnnn/C xx-xx-xx		X				
Update	UPDATE/U nnnnn xx-xx-xx ...		X				
Scratch	SFORM/S nnnnn ...		X				
Clean	KFORM/K nnnnn ...		X				
Certify	TFORM/T nnnnn ...		X				
Scratch/Clean	SFORM/Y nnnnn ...		X				
Certify/Clean	TFORM/Z nnnnn ...		X				
Ship Off-site	MFORM/F nnnnn		X				
Return On-site	MFORM/N nnnnn		X				
SKELETON	SKELETON or TLIB SKELETON (SKELETON FORM)		X				
Display	D ffffffffccccc		X		X		
Add	A ffffffffccccc xx-xx-xx		X				
Change	D ffffffffccccc/C xx-xx-xx		X				
Remove	R ffffffffccccc		X				

FIGURE 4-12. On-Line Input Command Summary

MODE/FUNCTION	INPUT COMMANDS	HL		RL		OU	
		T	V	T	V	T	V
MONITOR	MONITOR or TLIB MONITOR (MONITOR FORM)						
Display	D smmm		X		X		
Add	A smmm xx-xx-xx		X				
Change	D smmm/C xx-xx-xx		X				
Remove	R smmm		X				
CONTROL	TLIB CONTROL (CONTROL FORM)		X				
Display	1 First 9 sites		X				
	2 Second 9 sites		X				
Change	1/2 iiiiiiiiii/C xx--xx--xx		X				

FIGURE 4-12. On-Line Input Command Summary (continued)

## LEGEND FOR INPUT COMMANDS:

nnnnn	= Reel number
ffffffffffff	= File-ID
cccccc	= File-CTL
s	= Site code
(cccccs)	= Optional entry
xx-xx-xx	= User specified data elements
/	= Multiple commands
mmmm	= Monitor number
...	= Multiple reel number capabilities
iiiiiiiiii	= Site information for a maximum of 9 sites

## LEGEND FOR USERS:

HL	= Host Site Librarian
RL	= Remote Site Librarian
OU	= Other Authorized Users
T	= TTY compatible device including 786 VIP
V	= 7705 VIP with "forms-mode'enabled"

FIGURE 4-12. On-Line Input Command Summary (continued)



BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

LEW ALLEN, JR., General, USAF  
Chief of Staff

VAN L. CRAWFORD, JR., Colonel, USAF  
Director of Administration

#### SUMMARY OF CHANGES

This revision contains changes to all programs in the QD system. The DSD for the system is changed from Q104A to Q105 which caused all PCNs to change. This PCN change is the only change to the WLM Subsystem. Changes to the conversion procedures have resulted in the deletion of programs QD01FO, QD02FO, QD03FO and QD99FO. QD04FO has been added to convert control record information to a format which allows a maximum of 18 sites (1 host and 17 remoted) and 40 reel ranges. This change has been applied to all applicable programs. QD60FO and QD65FO have been added to the update portions of the TLM Subsystem. QD70FO has been modified to verify the system date through an operator message and to remove all reel records when the matching skeleton has been removed. Furthermore, QD70FO will now apply mass changes on selected fields when the field is changed in the skeleton record. QD80FO has been changed to prevent FILE-ID/FILE-CTL changes to allow changing of a particular field without entering all fields on a change card. All print programs have been changed to insure the validity of the entered site code. Some of the listings from the print program have been reformatted and selective options have been added in some programs. The on-line portion of the TLM Subsystem has additional functions such as mass shipping, mass return, and remote scratch candidate flagging. The commands KFORM, SFORM, and TFORM have been replaced by MFORM. The control record form has been modified and functions 1 and 2 added to allow display of two screens of site information.

## TLM SUBSYSTEM I/O VOCABULARY

## Legend for Attachment 1:

AN = Alphanumeric	N = Numeric
LJ = Left Justified	RJ = Right Justified
SF = Space Fill	ZF = Zero Fill
FF = Free Form	

## Address

(ADDRESS) - 10AN, FF - Identifies the address of a system monitor.

## Alternate Contact

(ALTERNATE CONTACT, NAME OF ALTER CONTACT, ALT NAME) - 15AN, FF - Identifies an individual having additional interest in a system.

## Alternate Phone

(ALTERNATE PHONE, ALTER PHONE, ALT PHONE) - 7AN, FF - Indicates an additional telephone number of the primary contact.

## Alternate VIP

(ALTERNATE VIP, ALT VIP) - 2AN - The terminal-ID of an alternate 7705 VIP to be used by site librarian (if not available, use Primary VIP).

## As Of Date

(AS OF DATE, AOD) - 6N (YYMMDD) - Identifies the date for which the file is prepared as shown; YY = 2-digit year, MM = 2-digit month (01-12), DD = 2-digit day (01-31)

## Backup

(BACKUP) - 6N - Automatically identifies the reels/sets that are sent to or returned from off-site. Either a Span or Cycle algorithm is used to determine the number of days or cycles that reels/sets remain off-site.

1. Span - (first position = 1, second and third positions = 01-99, fourth through sixth positions = 001-999) - Designates an inclusive range of reels/sets that remain off-site; i.e., 102004 states that the second through fourth reels/sets remain off-site.

2. Cycle - (first position = 2, second and third positions = 01-99, fourth through sixth positions = 000-999) - Designates a specific iteration of a reel/set that remains off-site; i.e., 203000 states that the third reel/set remains off-site. Additionally a definite number of days may be specified for a reel/set to remain off-site; i.e., 203090 states the third reel/set remains off-site for 90 days.

**Beginning Reel of Range**

(BEGINNING REEL OF RANGE) - 5 positions (1AN, A-Z or 0-9; 4N, 0000-9999) - Indicates the start of a range of reels.

**Card-ID**

(CARD-ID) - 1 to 5 AN, LJ, SF - Identifies the card(s) to be input.

**Card Sequence Number**

(CARD SEQUENCE NUMBER) - 2N (00-40) - Indicates the ascending sequence of the control cards.

**Certify Factor**

(CERTIFY FACTOR, CERT FACTOR) - 3N (000-999) - Indicates the number of days to be used in computing when a tape reel should be certified.

**Change/Remove Flag**

(C-R-FLAG) - 1AN - Indicates skeleton file actions. Utilized by COB actions to modify reel number records with changed/removed skeleton information.

**Clean Factor**

(CLEAN FACTOR, CLEAN FACT) - 3N(000-999) - Indicates the number of days to be used in computing when a tape reel should be cleaned.

**Date Certified**

(DATE CERTIFIED, DATE CERTD) - 6N (YYMMDD) - Identifies the last date on which a tape reel was certified as shown: YY = 2-digit year, MM = 2-digit month (01-12), DD = 2-digit day (01-31).

**Date Cleaned**

(DATE CLEANED, DATE CLEND) - 6N (YYMMDD) - Identifies the last date on which a tape reel was cleaned as shown: YY = 2-digit year, MM = 2-digit month (01-12), DD = 2-digit day (01-31).

**Date Created**

(DATE CREATED, DTE CRETD) - 6AN (YYMMDD) - Identifies the date on which a tape reel was created, scratched or certified as shown: YY = 2-digit year, MM = 2-digit month (01-12), DD = 2-digit day (01-31).

**Date Shipped**

(DATE SHIPPED, DATE SHIPD) - 6N (YYMMDD) - Identifies the date on which the tape reel was shipped off-site as shown: YY = 2-digit year, MM = 2-digit month (01-12), DD = 2-digit day (01-31).

**Destination-ID**

(DESTINATION-ID, DST-ID) - 2AN - The terminal-ID of a remote site printer to receive spawned reports.

**Ending Reel of Range**

(ENDING REEL OF RANGE) - 5 positions (1AN, A-Z or 0-9; 4N, 0000-9999) - Indicates the end of a range of reels.

**File Control**

(FILE CONTROL, FILE-CTL, F CTL) - 5AN, LJ, SF - Used with File-ID as additional identifying information.

**File-ID**

(FILE-ID) - 12AN, LJ, SF - Identifies a file to the system. Positions 10 and 11 may be used to indicate a command code.

**File Name**

(FILE NAME) - 8AN, LJ, SF - Identifies the name of the file to be initialized or reinitialized.

**Function**

(FUNCTION) - 1 or 4AN, LJ, SF - Identifies which function is to be performed by the input.

**Host Site Code**

(HOST SITE CODE) - 1AN (A-Z or 1-9) - Identifies the site designated as host.

**Inhibit Automatic Update Switch**

(INHIBIT AUTOMATIC UPDATE SWITCH, AUTO INHIBIT) - 1AN (Y or N) - Indicates whether the automatic function is operational.

**Last Actions**

(LAST ACTS) - 3 AN (G, F, S) - Indicates the last three actions upon a record as shown: A = Automatic, O = On-Line, B = Batch.

NOTE: A special action code of "S" is provided to flag reel number records that were changed by COB actions as the result of a skeleton change or remove function.

**Library Option 3**

(LIBRARY OPTION 3, LIB OPT3, LIB OP3) - 3AN, FF - For the use of the librarians as they wish.

**Library Option 4**

(LIBRARY OPTION 4, LIB OPT4) - 4AN, FF - For the use of the librarians as they wish.

**Library Option 6**

(LIBRARY OPTION 6, LIB OPT6) - 6AN, FF - For the use of the librarians as they wish.

**Location**

(LOCATION) - 10AN, FF - Identifies the locale where the tape reel is placed.

**Number of Actions**

(NUMBER OF ACTIONS, #ACTS) - 2N (01-99) - Indicates the total number of actions upon a record since the last COB. 99 indicates last reel protection has been set.

Number of Certifies

(NUMBER OF CERTIFIES, NUMBER CERTIFIES, NUM CERTS, #CE) - 2N (01-99)  
- Indicates the number of times that a tape reel was certified.

Number of Cleans

(NUMBER OF CLEANS, NUMBER CLEANS, NUM CLENS, #CL) - 2N (01-99) -  
Indicates the number of times that a tape reel was cleaned.

Number of Pages

(NUMBER OF PAGES) - 3N (001-999) - Indicates the number of tape control logs to be printed.

Office Symbol

(OFFICE SYMBOL, OFF SYM) - 5AN, FF - Identifies the office of primary interest for a system.

Off-Site Storage

(OFF-SITE STORAGE, OFF-SITE, OS, O) - 1AN (Y or N) - Indicates whether a tape reel is off-site.

Password

(PASSWORD) - 12AN, LJ, SF - Additional user identifier for various system functions.

PCN-ID

(PCN-ID) - 14AN, LJ, SF - Identifies the Product Control Number of the card input.

Primary Contact

(PRIMARY CONTACT, NAME OF PRIMARY CONTACT, PRI NAME) - 15AN, FF - Identifies an individual having primary interest for a system.

Primary Phone

(PRIMARY PHONE, PRIME PHONE, PRI PHONE) - 7AN, FF, - Indicates the telephone number of the primary contact.

Primary VIP

(PRIMARY VIP, PRIVIP) - 2AN - The terminal-ID of the primary 7705 VIP to be used by the site librarian.

Processor Time Limits

(PROC LIMITS) - 2N (01-99) - Maximum processing time for each spawned report.

Reel Number

(REEL NUMBER, REEL NUM, REEL#) - 5 positions (1AN, A-Z or 0-9; 4N, 0000-9999) - Identifies a reel of magnetic tape.

Remarks

(REMARKS) - 22(or 56)AN, FF - For the use of the librarians as additional information.

**Retention**

(RETENTION, RTEN TION) - 4 positions (3N, 001-999; 1AN, D or C) - Indicates the initial number of days or cycles that a tape reel will be retained before scratching.

**Retention Remaining**

(RETENTION REMAINING, RTEN TION) - 5 positions (1AN, space, plus, minus or asterisk; 3N, 001-999; 1A/N, D or C) - Identifies the number of days or cycles remaining before listing as a "Scratch Candidate". The space and minus denotes positive and negative retention, respectively. The plus and asterisk denotes positive and negative retention of reels flagged as a remote scratch candidate.

**Return Date**

(RETURN DATE, RETN DATE) - 6N (YYMMDD) - Identifies the date on which an off-site tape reel is scheduled for return as shown: YY = 2-digit year, MM = 2-digit month (01-12), DD = 2-digit day (01-31).

**Security**

(SECURITY, SEC, SE, S) - 1AN - Identifies the security classification of the item as shown: F = For Official Use Only, U = Unclassified, C = Confidential, S = Secret, T = Top Secret, W = Top Secret/SIOP, P = Privacy Act data.

**Sequence**

(SEQUENCE, SEQU, SEQ, SQ) - 2N (01-99) - Identifies the occurrence within a set.

**Site Code**

(SITE CODE, SITE, CODE, SC) - 1AN (A-Z or 1-9) - Identifies the host or remote sites.

**Site Heading**

(SITE HEADING, HEADING) - 5AN, FF - Identifies the sites.

**SNUMB**

(SNUMB) - 6AN, LJ, SF - Identifies a system number.

**SYSOUT Line Limits**

(SYSOUT LIMITS) - 2N (01-99) - Indicates the maximum number of SYSOUT lines (in thousands) for each spawned report.

**System Monitor**

(SYSTEM MONITOR, SYS MON, MONITOR) - 3N (001-999) - Identifies the monitor responsible for a system.

**Time Created**

(TIME CREATED, TIME CRETD, TIME CRTD, HOUR) - 4N (HHMM) - Identifies the time at which a tape reel was created as shown: HH = 2-digit hour (00-23), MM = 2-digit minute (00-59). NOTE. For multireel sets, time must be greater for each succeeding reel.

A1-6

AFM 171-602 Vol II Attachment 1 14 November 1980

USERID

(USERID) - 12AN, LJ, SF - Identifies the user to various system functions.

## WLM SUBSYSTEM I/O VOCABULARY

### Legend for Attachment 2:

AN = Alphanumeric	N = Numeric
LJ = Left Justified	RJ = Right Justified
SF = Space Fill	ZF = Zero Fill
FF = Free Form	

### Alternate Contact

(ALTERNATE CONTACT, NAME OF ALTER CONTACT, ALT NAME) - 15AN, FF - Identifies an individual having additional interest in a system.

### Alternate Phone

(ALTERNATE PHONE, ALTER PHONE, ALT PHONE) - 6AN, FF - Indicates an additional telephone number of the primary contact.

### AUTODIN Indicator

(AUTODIN) INDICATOR, AUTOD - 1AN (Y or N) - Indicates whether the report is transmitted over AUTODIN.

### Begin Day

(BEGIN DAY) - 2N (01-31) - Indicates the starting day of the period.

### Begin Month

(BEGIN MONTH) - 2N (01-12) - Indicates the starting month of the period.

### Card-ID

(CARD-ID) - 1 to 5AN, LJ, SF - Identifies the card(s) to be input.

### Command Code

(COMMAND CODE, COMMAND, CMD, CC) - 2AN, LJ, SF - Identifies the command responsible for the specified item.

### Day

(DAY) - 2N (01-31) - Indicates the specified day.

### D-Day Indicator

(D-DAY INDICATOR, D-DAY) - 1AN - Indicates precedence for emergency processing as shown: 0 = Discontinue, 1 = C-1 Priority, 2 = C-2 Normal, 3 = C-3 Delayed

### D-Day Sort

(D-DAY SORT) - 4 positions - A "1" in one of the positions indicates a specific sort sequence of the #PCN cards.



## End Day

(END DAY) - 2N (01-31) - Indicates the last day of the period.

## End Month

(END MONTH) - 2N (01-12) - Indicates the last month of the period.

## File Control

(FILE CONTROL, FILE-CTL, F CTL) - 5AN, LJ, SF - Used with File-ID as additional identifying information.

## File-ID

(FILE-ID) - 12AN, LJ, SF - Identifies a file to the system. Positions 10 and 11 may be used to indicate a command code.

## Forms Indicator

(FORMS INDICATOR, FORMS) - 1AN (Y or N) - Indicates whether special forms are needed for the item.

## Frequency

(FREQUENCY, FREQ) - 1AN - Indicate how often the report is needed as shown: D = Daily, W = Weekly, M = Monthly, Q = Quarterly, S = Semiannually, A = Annually, E = Biweekly, N = Bimonthly, R = As required.

## I/O Indicator

(I/O INDICATOR, I/O) - 1AN (I or O) - Indicates whether the item is input or output.

## Mask

(MASK) - 31 positions - A "1" in any of the positions indicates the days on which a Package is scheduled.

## Media

(MEDIA) - 4AN - Identifies the current storage location of the item as shown: ADCD = AUTODIN Card, ADTP = AUTODIN Tape, CARD = Card, DPAK = Disk Pack, FICH = Microfiche, LIST = List, TAPE = Tape, XROX = XEROX.

## Minimize Indicator

(MINIMIZE INDICATOR, MIN) - 1AN (Y or N) - Indicates whether a report is transmitted during Minimize.

## Month

(MONTH) - 2N (01-12) - Indicates the specified month.

## Number of Copies

(NUMBER OF COPIES, COPIES, CYS) - 2N (01-99) - Indicates the number of copies of the item needed.

## Number of Labels

(NUMBER OF LABELS, LABELS) - 2N (01-99) - Indicates the number of AF Forms 606 to be partially completed.

**Office Symbol**

(OFFICE SYMBOL, OFFICE) - 9AN, LJ, SF - Identifies office of primary interest for a system.

**OPR Sort**

(OPR SORT) - 4 positions - A "1" in one of the positions indicates a specific sort sequence of the #OPR cards.

**Package Number**

(PACKAGE NUMBER, PCKG) - 5N (00001-99999) - Identifies a package of the subsystem.

**Pckg-Seq**

(PCKG SEQ) - 8 positions (5N, 00001-99999; 3N, 001-999) - Identifies the Package and the relative position of the record within the Package sequence.

**PCN-ID**

(PCN-ID) - 14AN, LJ, SF - Identifies the Product Control Number of the card input.

**PCN/RCS Indicator**

(PCN/RCS INDICATOR) - 1AN (P or R) - Identifies the type of report.

**PCN/RCS Number**

(PCN/RCS NUMBER, NUMBER) - 14AN, LJ, SF - Identifies a report by number.

**PCN Sort**

(PCN SORT) - 4 positions - A "1" in one of the positions indicates a specific sort sequence of the #PCN cards.

**Primary Contact**

(PRIMARY CONTACT, NAME OF PRIMARY CONTACT, PARI NAME) - 15AN, FF - Identifies an individual having primary interest for a system.

**Primary OPR**

(PRIMARY OPR, P-OPR, OPR) - 3N (001-999) - Identifies the office of primary responsibility for the item.

**Primary Phone**

(PRIMARY PHONE, PRIME PHONE, PRI PHONE) - 7AN, FF, - Indicates the telephone number of the primary contact.

**Product Title**

(PRODUCT TITLE, TITLE) - 16AN, LJ, SF - Identifies a report by name.

**Related OPR**

(RELATED OPR) - 3N (001-999) - Identifies additional OPRs having interest in an item.

A2-4

AFM 171-602 Vol II Attachment 2 14 November 1980

Security

(SECURITY, SEC, SE, S) - 1AN - Identifies the security classification of the item as shown: F = For Official Use Only, U = Unclassified, C = Confidential, S = Secret, T = Top Secret, W = Top Secret/SIOP

SNUMB

(SNUMB) - 6AN, LJ, SF - Identifies a system number.

TLM SUBSYSTEM OUTPUT MESSAGES

PROGRAM QD04FO:

DIAGNOSTIC MESSAGES:

UNABLE TO ACCESS OLD MASTER--Self-explanatory.

TLM FILE ACCESS OVERDUE--Job aborted do to unavailability of TLM data base.

UNABLE TO ALLOCATE TEMP--Temporary work file cannot be allocated because of insufficient space.

UNABLE TO CREATE NEW MASTER--Self-explanatory.

PCN SQ105-042 MESSAGES:

\*\*\* FILE CONVERSION COMPLETE WITH nnnnnn DATA RECORDS--Self-explanatory.

PROGRAM QD05FO:

DIAGNOSTIC MESSAGES:

\*\*\* xxxxx FILE REINITIALIZED WITH nnnnnn DATA RECORDS--Self-explanatory.

INCOMPLETE INPUT--Input to card file CQD05FORU incomplete.

ALL FILES RELEASED - DO FMS RESTORE--Self-explanatory.

TLM FILE ACCESS OVERDUE--Job aborted due to unavailability of TLM data base.

UNABLE TO ACCESS MASTER--Self-explanatory.

PCN MISSING OR INVALID--Self-explanatory.

SEQUENCE ERROR--Cards input to CQD05FORU are improperly sequenced.

INVALID CARD--Self-explanatory.

MULTIPLE OR OUT OF SEQUENCE CARD--Factor card out of sequence or multiple occurrences of factor card.

INVALID FACTOR CARD--Self-explanatory.

OUT OF SEQ CARD--Reel card out of sequence.

TOO MANY REEL CARDS--Over 40 input reel parameters have been detected.

INVALID REEL NO--Position 2-5 of beginning reel number or position 2-5 of ending reel number is not numeric.

REEL NO SEQUENCE ERROR--Position 2-5 of beginning reel number is greater than position 2-5 of ending reel number.

MISSING SITE CARD--Preceding site card is missing.

INVALID SITE CARD--Card contains spaces in mandatory entries.

TOO MANY SITE CARDS--Over 18 input site parameters have been detected.

IDENT MISSING--Self-explanatory.

ILLEGAL UPDATE--Self-explanatory.

NO HOST IDENTIFIED--Host site field in fact card did not match site cards provided.

UNABLE TO RELEASE MASTER--Self-explanatory.

UNABLE TO CREATE MASTER--Self-explanatory.

UNABLE TO ACCESS MONITOR--Self-explanatory.

UNABLE TO RELEASE MONITOR--Self-explanatory.

UNABLE TO CREATE MONITOR--Self-explanatory.

UNABLE TO ACCESS SKELETON--Self-explanatory.

UNABLE TO RELEASE SKELETON--Self-explanatory.

UNABLE TO CREATE SKELETON--Self-explanatory.

PCN SQ105-052 MESSAGES:

-- NO CARD ERRORS -- --Self-explanatory.

\*\*\* xxxxx FILE INITIALIZED WITH nnnnnn DATA RECORDS--Self-explanatory.

-- CONTROL UPDATE ONLY-- --Only control record updated; file contents unchanged.

MASTER INITIALIZATION STARTED--Self-explanatory.

MASTER REINITIALIZATION STARTED--Self-explanatory.

MONITOR INITIALIZATION STARTED--Self-explanatory.

MONITOR REINITIALIZATION STARTED--Self-explanatory.

NULL INPUT - 100 ASSUMED--No input monitor size; defaulted to 100 records.

SKELETON INITIALIZATION STARTED--Self-explanatory.

SKELETON REINITIALIZATION STARTED--Self-explanatory.

NULL INPUT - 1000 ASSUMED--No input skeleton size; defaulted to 1000 records.

PROGRAM QD10F0:

DIAGNOSTIC MESSAGES: None.

PCN MESSAGES: See section 4 for On-Line forms messages.

PROGRAM QD20F0:

DIAGNOSTIC MESSAGES:

UNABLE TO ACCESS SKELETON FILE--Self-explanatory.

UNABLE TO ACCESS MASTER FILE--Self-explanatory.

TLM FILE ACCESS OVERDUE--Job aborted due to unavailability of TLM data base.

AUTOMATIC UPDATE INHIBITED--Automatic update inhibit switch is set on.

AUTOMATIC UPDATE COMPLETE--Self-explanatory.

MASTER OUT OF SEQUENCE--Self-explanatory.

UNABLE TO ACCESS J\* FILE--Self-explanatory.

OPERATOR MESSAGE:

\*\*\* ATT S# nnnnn - NOTIFY LIBRARIAN--Problem exists with the automatic update for the SNUMB indicated, librarian should check the execution report.

PCN SQ105-702 (COB Actions) MESSAGES:

UNABLE TO UPDATE--No File-ID/File-CTL is available to process this tape.

INVALID REEL NUMBER--Reel number not in master file.

NOT SCRATCH STATUS--Self-explanatory.

NO SKELETON MATCH--No skeleton entry for this File-ID/File-CTL.

MULTI-FILE REEL--This file is an intermediate file on a multiframe reel. Information only.

## PROGRAM QD30F0:

## DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INVALID--Self-explanatory.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

PCN SQ105-302 MESSAGE: None.

## PROGRAM QD31F0:

## DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INVALID--Self-explanatory.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

PCN SQ105-312 MESSAGES: None.

## PROGRAM QD32F0:

## DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INVALID--Self-explanatory.

INVALID MONITOR NUMBER--Bad monitor in PCN card.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MONITOR FILE--Self-explanatory.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

PCN SQ105-322 MESSAGES: None.

## PROGRAM QD33F0:

## DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INVALID--Self-explanatory.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

PCN SQ105-332 MESSAGES: None.

## PROGRAM QD34F0:

DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INVALID--Self-explanatory.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

NO RECORDS FOUND FOR SITE CODE--Self-explanatory.

PCN SQ105-342 MESSAGES: None.

\* PROGRAM QD35FO:

DIAGNOSTIC MESSAGES:

\*\*\* INVALID CARD TYPE--Self-explanatory.

\*\*\* PCN INVALID/MISSING--Self-explanatory.

\*\*\* MISSING // DELIMITER--// was not used to end a control card.

\*\*\* MISSING / DELIMITER--/ was not used to separate major fields.

\*\*\* MISSING , DELIMITER--, was not used to separate minor field.

\*\*\* TOTAL CHAR-SPACE > 132--Self-explanatory.

\*\*\* SORT KEY > 5--Number used for sort key is greater than five.

\*\*\* FIELD-ID INV--ID used for field is invalid.

\*\*\* HEADER FIELD TOO LONG--Self-explanatory.

\*\*\* UNABLE TO ACCESS MASTER FILE--Self-explanatory.

\*\*\* PREMATURE EOF ON MASTER FILE--No data on Master file RQD10F01U.

\*\*\* MASTER FILE BUSY-TRY LATER--Self-explanatory.

\* PCN SQ105-352 MESSAGES

\*\*\* NO RECORDS SELECTED--Self-explanatory.

PROGRAM QD40FO:

DIAGNOSTIC MESSAGES:

PCN MISSING OR INVALID--Self-explanatory.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.



A3-6

AFM 171-602 Vol II (C2) Attachment 3 17 April 1981

UNABLE TO ALLOCATE SKELETON FILE--Self-explanatory.

PCN SQ105-402 MESSAGES: None.

PROGRAM QD45FO:

DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INVALID--Self-explanatory.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

UNABLE TO ALLOCATE MONITOR FILE--Self-explanatory.

PCN SQ105-452 MESSAGES: None.

PROGRAM QD50FO:

DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INVALID--Self-explanatory.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

PCN SQ105-502 MESSAGES: None.

PROGRAM QD51FO:

DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INVALID--Self-explanatory.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

PCN SQ105-512 MESSAGES:

\*\*\* - THIS REEL DUE TO BE SHIPPED OFF-SITE--Self-explanatory.

PROGRAM QD52FO:

DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INVALID--Self-explanatory.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

PCN SQ105-522 MESSAGES: None.

INVALID SITE CODE--Bad code in PCN card.

PROGRAM QD53F0:

DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INVALID--Self-explanatory.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

UNABLE TO ALLOCATE MONITOR FILE--Self-explanatory.

PCN SQ105-532 MESSAGES:

\*\*\* REEL DUE SCRATCH--Self-explanatory.

NUMBER OF TAPES WITH A RETENTION REMAINING OF n DAYS--Self-explanatory.

\*\*\* WARNING \*\*\* THE ABOVE REEL/SET IS THE LAST OCCURRENCE \*\*\*\*\*--This reel/set is the most current reel/set.

PROGRAM QD54F0:

DIAGNOSTIC MESSAGES:

PCN MISSING OR INVALID--Self-explanatory.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

PCN SQ105-542 MESSAGES:

THE ABOVE REEL MISSING CLEAN DATE--Self-explanatory.

THE ABOVE REEL MISSING CERT DATE--Self-explanatory.

PROGRAM QD55FO:

DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INVALID--Self-explanatory.

INVALID SITE CODE--Bad code in PCN card.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

PCN SQ105-552 MESSAGES: None.

PROGRAM QD60FO:

DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INVALID--Self-explanatory.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

TLM FILE ACCESS OVERDUE--Job aborted to due to unavailability of TLM data base.

PASSWORD MISSING OR INVALID--Self-explanatory.

INVALID CARD INPUT--Self-explanatory.

UNABLE TO ALLOCATE TEMP FILE--Temporary work file cannot be allocated due to insufficient space.

PCN SQ105-602 MESSAGES:

INVALID CARD INPUT--Self-explanatory.

LAST REEL/SET--Reel/Set is the most current for this File-ID/File Control.

REEL OFF SITE--Reel that is located at a remote site cannot be scratched.

NO REELS DUE SCRATCH--Self-explanatory.

LISTING ONLY--NO TAPES SCRATCHED--This list indicates which reels are due to be scratched but none of the reels are scratched.

PROGRAM QD65FO:

DIAGNOSTIC MESSAGES:

UNABLE TO ACCESS SKELETON--Self-explanatory.

PCN MISSING OR INVALID--Self-explanatory.

TLM FILE ACCESS OVERDUE--Self-explanatory.

PASSWORD MISSING OR INVALID--Self-explanatory.

DUPLICATE REEL NUMBER--Duplicate reel number used on "R" change card.

NO VALID INPUT--Self-explanatory.

PCN SQ105-652 MESSAGES:

NO SELECTION CRITERIA--No input on Old File-ID, Old File Control, Type or Site Code.

NO NEW CRITERIA--No input on New File-ID or New File Control

INVALID SITE CODE--Self-explanatory.

REEL TABLE FULL--More than 70 reels attempted on one File-ID/File Control/Change.

NO SKELETON MATCH--Self-explanatory.

\*\* REMOVED \*\*--Skeleton record deleted.

\*\* SKELETON UPDATE \*\*--New skeleton created.

NO MASTER MATCH--Self-explanatory.

NO REEL MATCH--Self-explanatory.

DUPLICATE REEL NUMBER--Duplicate reel number used on "R" change card.

PROGRAM QD70FO:

DIAGNOSTIC MESSAGES:

UNABLE TO ALLOCATE SKELETON FILE--Self-explanatory.

UNABLE TO ALLOCATE MASTER FILE--Self-explanatory.

UNABLE TO ALLOCATE MONITOR FILE--Self-explanatory.

PCN SQ105-702 MESSAGES: (see QD20FO messages also)

\*\*\* -THIS MONITOR RECORD HAS BEEN DELETED -\*\*\*--Self-explanatory.

\*\*\* - THIS PARTIAL MONITOR RECORD HAS BEEN DELETED -\*\*\*--Incomplete monitor record deleted by COB.

\*\*\* - THIS RECORD HAS BEEN DELETED - \*\*\*--Self-explanatory.

\*\*\* - NO SKELETON ACTIONS - \*\*\*--No updates to skeleton file since last COB run.

\*\*\* - NO MASTER ACTIONS - \*\*\*--No updates to master file since last COB run.

\*\*\* - NO UPDATE ERRORS - \*\*\*--No automatic update errors since last COB run.

\*\*\* - NO MONITOR ACTIONS - \*\*\*--No updates to monitor file since last COB run.

OPERATOR MESSAGE:

\*\*\* ATT S# nnnnnn-nn ENTER SYSTEM DATE-MMDDYY

\*

PROGRAM QD80FO:

DIAGNOSTIC MESSAGES:

TLM FILE ACCESS OVERDUE--Job aborted due to unavailability of TLM data base.

PCN MISSING OR INVALID--Self-explanatory.

UNABLE TO ACCESS SKELETON--Self-explanatory.

UNABLE TO ACCESS MONITOR--Self-explanatory.

UNABLE TO ACCESS MASTER--Self-explanatory.

NO INPUT--EOF with no input transactions.

PCN SQ105-802 MESSAGES:

INVALID CARD-ID--Card type not equal MAST, SKEL, or MONI.

NO MATCH--EOF reached with no match on input transaction.

DUPLICATE--Input for existing entry.

NO FILE SPACE--Insufficient space to add new skeleton or monitor. Run QD05FO.

INVALID SECURITY--Security not U, C, S, T, W, or F.

INVALID MONITOR--System monitor not numeric.

INVALID RETENTION--Retention not numeric or retention flag not equal C or D.

INVALID BACKUP--Backup not numeric or equal to zero.

INVALID FUNCTION CODE--Transaction type illegal.

NO INPUT REELS--Expecting reel number on input transaction.

OFF-SITE--Transaction against off-site reel invalid.

INVALID TIME CREATED--Time created not numeric or greater than 2359.

INVALID SEQUENCE--Sequence not numeric.

NO SKELETON--No skeleton file entry for the File-ID/File-CTL.

INVALID NUM CLEANS--Num cleans not numeric.

INVALID NUM CERTS--Num certs not numeric.

INVALID OFF-SITE--Off-Site not equal Y, N or S.

INVALID DATE--Date not numeric, month greater than 12, day greater than 31 or date entered is beyond current date.

INVALID SITE CODE--No match in control record for this site code.

INVALID REEL NUMBER--Positions 2-5 of reel number not numeric or reel number not within specified reel ranges in control record.

NOT SCRATCH STATUS--Self-explanatory.

ALREADY IN SCRATCH STATUS--Self-explanatory.

WLM SUBSYSTEM OUTPUT MESSAGES

PROGRAM QD90FO:

DIAGNOSTIC MESSAGES:

SCHEDULE CARD MISSING OR INACCURATE--Self-explanatory.

READ TL-MAST INVALID KEY PAR nnnn--Invalid key reading tape library master file.

PCN CARD MISSING OR INACCURATE--Self-explanatory.

INVALID INPUT TRANSACTION--Self-explanatory.

FORECAST CARD INACCURATE--Self-explanatory.

MULTIPLE #SCHD CARDS--Self-explanatory.

DUPLICATE PCKG CARD--Self-explanatory.

NO VALID INPUT TRANSACTIONS--Self-explanatory.

UNABLE TO ALLOCATE RQD10F01U FILE--Self-explanatory.

PCN SQ105-902 MESSAGES:

NO PACKAGES SCHEDULED DURING THIS INTERVAL--Self-explanatory.

INTERVAL CROSSES YEAR END--Self-explanatory.

PCN SQ105-903 MESSAGES:

\*\*\* SCRATCH TAPE NEEDED --Self-explanatory.

\*\*\* NO REELS FOUND FOR THIS JCL-RECORD--Self-explanatory.

NO MATCH IN LIBRARY FOR FILE-ID--Self-explanatory.

\*\*\*\*\* REEL SELECTED FOR FILE \*\*\*\*\*--Self-explanatory.

SCRATCHES NEEDED---Self-explanatory.

PROGRAM QD91FO:

DIAGNOSTIC MESSAGES:

SELECTED-JCL NOT FOUND FOR CARD RECORD--Self-explanatory.

INVALID CODE IN COL 1 CARD RECORD--Self-explanatory.

EOF ON SELECTED-JCL BEFORE PROCESSING TRANSACTION CARD RECORD--Self-explanatory.

EXPECTING REEL RECORD AT EOF--Self-explanatory.

PCN CARD MISSING OR INACCURATE--Self-explanatory.

PCN SQ105-912 MESSAGES:

\*\*\* PRESUMED SCRATCH--Self-explanatory.

MULTI-REEL FILE OF nnn REELS--Self-explanatory.

PCN SQ105-913 MESSAGES: None.

PCN SQ105-914 MESSAGES: None

PCN SQ105-915 MESSAGES: None.

PROGRAM QD93FO:

DIAGNOSTIC MESSAGES:

SWITCH 1, 2, OR 3 NOT SET--Self-explanatory.

INVALID KEY PAR nnn--Invalid key writing work file.

PCN CARD MISSING OR INACCURATE PCN SQ105-nnn--Self-explanatory.

UNABLE TO ALLOCATE RQD10FO2U FILE--Self-explanatory.

PCN SQ105-932 MESSAGES:

\*\*\* NO MATCH IN SKELETON FILE--Self-explanatory.

\*\*\* I. ENT NOT #LAB--Self-explanatory.

\*\*\* NO FILE-ID--No File-ID on label card.

\*\*\*ZERO LABELS--No amount specified on label card.

PPOGRAM QD94FO:

DIAGNOSTIC MESSAGES: None.

PCN SQ105-942 MESSAGES: None.

PROGRAM QD95FO:



DIAGNOSTIC MESSAGES:

NO INPUT CARDS--Self-explanatory.

PCN CARD MISSING OR INACCURATE--Self-explanatory.

MGT REPORTS REQUEST CARD MISSING--Self-explanatory.

NO REPORTS REQUESTED--Self-explanatory.

NO #PCN RECORDS FOUND--Self-explanatory.

PCN SQ105-952 MESSAGES: None.

PCN SQ105-953: None.

PCN SQ105-954 MESSAGES: None.

PROGRAM QD96FO:

DIAGNOSTIC MESSAGES:

PCN CARD MISSING OR INACCURATE--Self-explanatory.

INVALID TRANSACTION--Self-explanatory.

DUPLICATE TRANSACTION--Self-explanatory.

INVALID OPR-PCKG COPY--Attempt to copy #OPR package illegal.

INVALID DELETE OPR-PCKG--Attempt to delete #OPR package illegal.

PCN SQ105-962 MESSAGES:

\*\*\* THIS PACKAGE NUMBR AVAILABLE FOR USE--Self-explanatory.

\*\*\* TAPE CARD DOES NOT CONFORM TO AFM 171-602--Self-explanatory.

\*\*\* DELETED RECORD EXPECTING IDENT REF NEXT LINE--Self-explanatory.

\*\*\* INSERTED RECORD - OPR RECORD FOUND \*\*\*--Self-explanatory.

\*\*\* INSERTED RECORD NEW SNUMB FOUND--Self-explanatory.

\*\*\* DELETED RECORD EXPECTING USERID REF NEXT LINE--Self-explanatory.

\*\*\* READ CARD DOES NOT CONFORM TO AFM 171-602--Self-explanatory.

\*\*\* DELETED CARD IMAGE--- --Self-explanatory.

\*\*\* DELETED RECORD \*UNABLE TO UPDATE\* REF NEXT LINE--Self-explanatory.

\*\*\* DELETED RECORD INVALID CODE COL1 REF NEXT LINE--Self-explanatory.

A4-4

AFM 171-602 Vol II Attachment 4

14 November 1980

\*\*\* DELETED RECORD EOF ON MASTER BEFORE PROCESSING--Self-explanatory.

\*\*\* DELETED RECORD EXPECTING SNUMB REF NEXT LINE--Self-explanatory.

PROGRAM QD99FO:

DIAGNOSTIC MESSAGES: None.

PCN SQ105-992 MESSAGES:

\*\*\* THIS PACKAGE NUMBER AVAILABLE FOR USE--Self-explanatory.

## TLM DATA BASE ACCESS SUBROUTINE

Subroutine QDSBFO is provided to allow programs other than the QD system to retrieve data from the TLM data base. QDSBFO features include OPENing of the TLM data base as well as sequential and random searches via various CALL statements.

1. SETUP. QDSBFO must be placed on a random subroutine library (\*L) in order for it to be loaded with the CALLing program.

2. MEMORY REQUIREMENTS. QDSBFO utilizes approximately 2K words of core.

3. INPUT FILES. QDSBFO utilizes file codes RT, RS and RM for the TLM data base accesses. File code \*L is also required to load QDSBFO.

4. INPUT JCL. File codes RT, RS and RM are dynamically allocated by QDSBFO when the OPEN call is executed. File code \*L must be present in the JCL stream as follows:

1        8        16

\$        PRMFL        \*L,R,R,CAT(User spec)/FILE(User spec)

5. PROGRAM CALLS. The following CALL formats are described for use in a COBOL program. However, the format of these calls can be modified for use with other languages.

a. OPEN TLM Data Base This CALL dynamically accesses, if not previously OPENed, and OPENS the TLM data base. The format of this CALL is as follows:

12

CALL LIBOPN.

b. SEQUENTIAL ACCESS This CALL allows sequential access of any one of the three files comprising the TLM data base. The format of this CALL is as follows:

12

CALL LIBSEQ USING fc, buff, param

## c. RANDOM ACCESS

This CALL allows random access of the TL-Master only. The format of this CALL is as follows:

12

CALL LIBRAN USING buff, reel-num.

## d. CALL ARGUMENTS.

(1) fc - Utilized in sequential access to specify which file of the TLM data base is to be accessed. "fc" must be described in the DATA DIVISION as follows:

8

77 fc PIC XX VALUE nn. where nn=  
"RT" - TL-Master  
"RS" - Skeleton  
"RM" - Monitor

(2) buff - Utilized during sequential and random access to specify the location to receive the requested record. "buff" must be described in the DATA DIVISION as follows:

8

01 buff PIC X(nnn). where nnn=  
128 - TL-Master  
64 - Skeleton  
128 - Monitor

NOTE: The following messages are returned in character positions 1-6 of "buff". It will be the CALLING programs responsibility to test for these conditions.

ERR001 - an invalid file code was described in the "fc" argument of a sequential access.

ERR002 - an invalid reel number was described in the "reel-num" argument of a random access.

EOF - a valid end of file was detected during sequential access.

(3) param - Utilized during sequential access to specify where the next logical record is to be obtained from. "param" must be specified in the DATA DIVISION as follows.

8

77 param PIC 9(8) COMP-1. The values assigned this field are as follows:

=0 - deliver the first  
logical record of  
the specified  
file.

=0 - deliver the next  
sequential  
logical record of  
the specified  
file.

(4) reel-num - utilized during random access to request a specific reel number record on the TL-Master. "reel-num" must be described in the DATA DIVISION as follows:

8

77 reel-num PIC X(5). The value assigned this  
field must be a five-  
position reel number  
which is specified on  
the TL-Master.